

Gamma Ray
Cement Bond
Variable Density
CCL

Company Mallard Exploration
Well Green Teal FED 34-27-5HN
Field Duck Pond
County Weld
State Colorado

Company Mallard Exploration
Well Green Teal FED 34-27-5HN
Field Duck Pond
County Weld State Colorado

Location: API #: 05-123-46179
SEC 34 TWP 8N RGE 60W
Permanent Datum GL Elevation 4923'
Log Measured From KB
Drilling Measured From KB
Other Services
None
Elevation
K.B. 4940'
D.F. 4939'
G.L. 4923'

Date 16-FEB-2022
Run Number One
Depth Driller 16821 FT
Depth Logger 6842 FT
Bottom Logged Interval 6839 FT
Top Log Interval Surface
Open Hole Size 8.5
Type Fluid Water
Density / Viscosity 8.33
Max. Recorded Temp. 222 F
Estimated Cement Top See Log
Time Well Ready ROA
Time Logger on Bottom 12:20
Equipment Number 303
Location Green Teal Fed
Recorded By N. Wells
Witnessed By Pat Martin

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record							
Surface String	9 5/8			Mgt/Ft		Top	Bottom
Prot. String	5.5"			36		Surface	---
Production String				20		Surface	16821 FT
Liner							

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Log ran at Customer Request

Log Recorded With 500 PSI Surface Induced Pressure
Correlated to Marker Joint at 5646 FT
Adjusted -7 Feet to Correlate

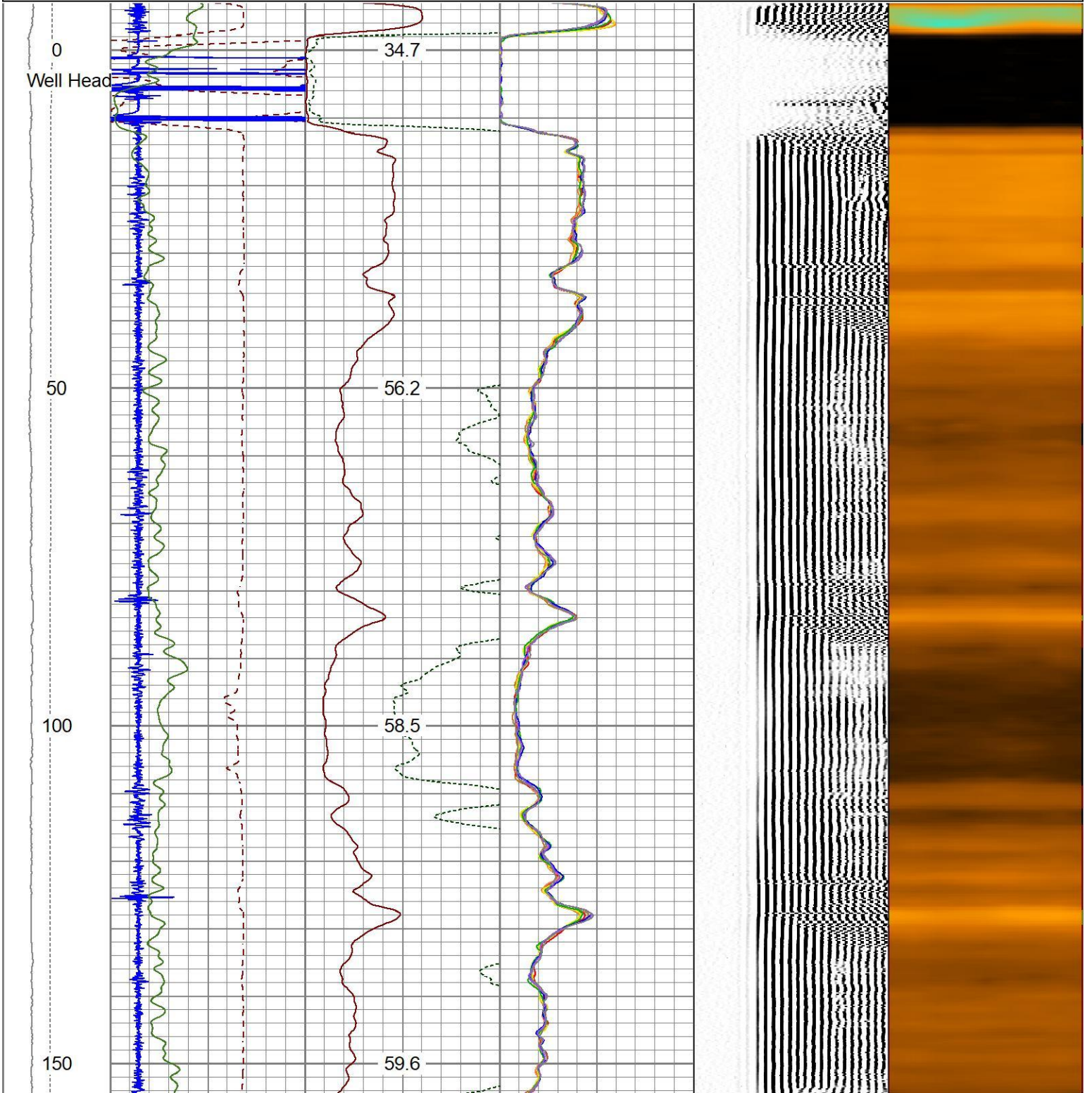
Logging Tools were Clean and Free of Debris
Thank You for Using Go Wireline



Main Pass

Database File mallard_green_tea_34_27_5hn_ddr_rcbl.db
 Dataset Pathname log1/pass4
 Presentation Format rbl_all_8_2020
 Dataset Creation Wed Feb 16 12:18:52 2022
 Charted by Depth in Feet scaled 1:240

LTEN	3' Travel Time	3' Amplitude	0	AMPS1	150	5' Variable Density	1	Sector Map	8
0 (lb 1000)	400 (usec) 200	0 (mV) 100	0	AMPS2	150	10 (usec) 1200	0		95
LSPD	Casing Collar Locator	3' Amplified Amplitude	0	AMPS3	150	-409.6 (V)	409.4		
(ft/min)	GAMMA RAY	0 (mV) 20	0	AMPS4	150				
500 -500	0 (GAPI) 200	Temp	0	AMPS5	150				
		(degF)	0	AMPS6	150				
			0	AMPS7	150				
			0	AMPS8	150				



200

250

300

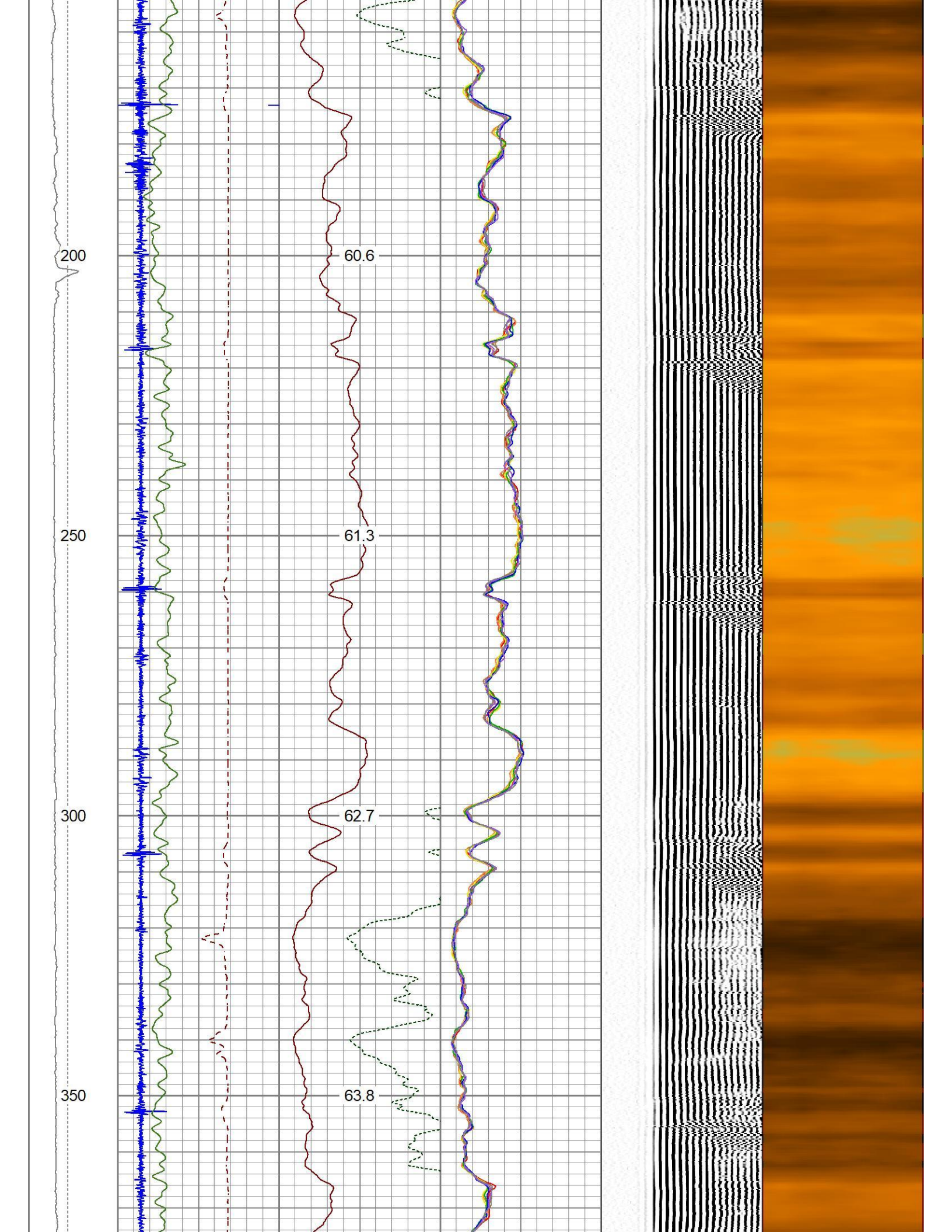
350

60.6

61.3

62.7

63.8



400

450

500

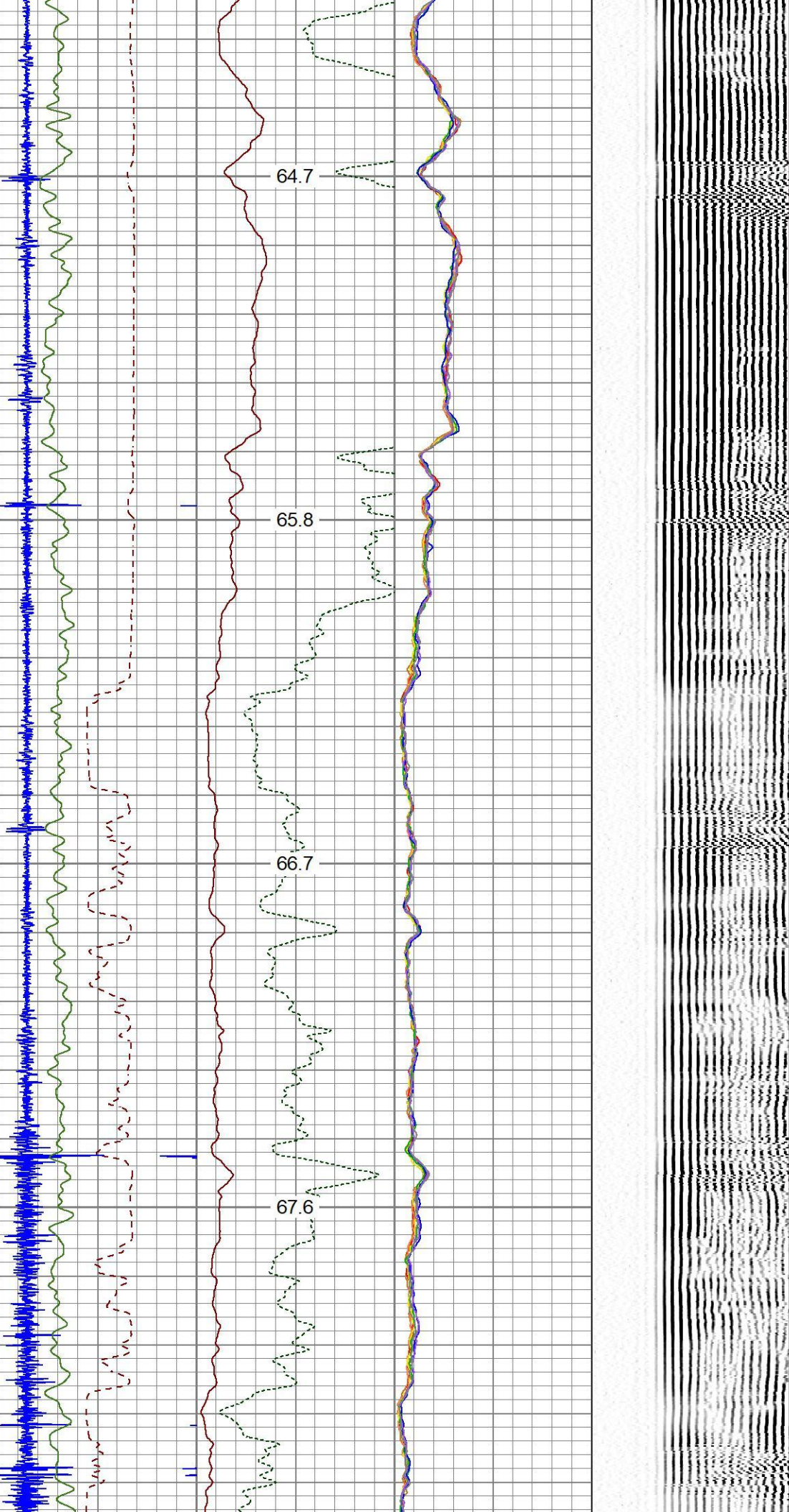
550

64.7

65.8

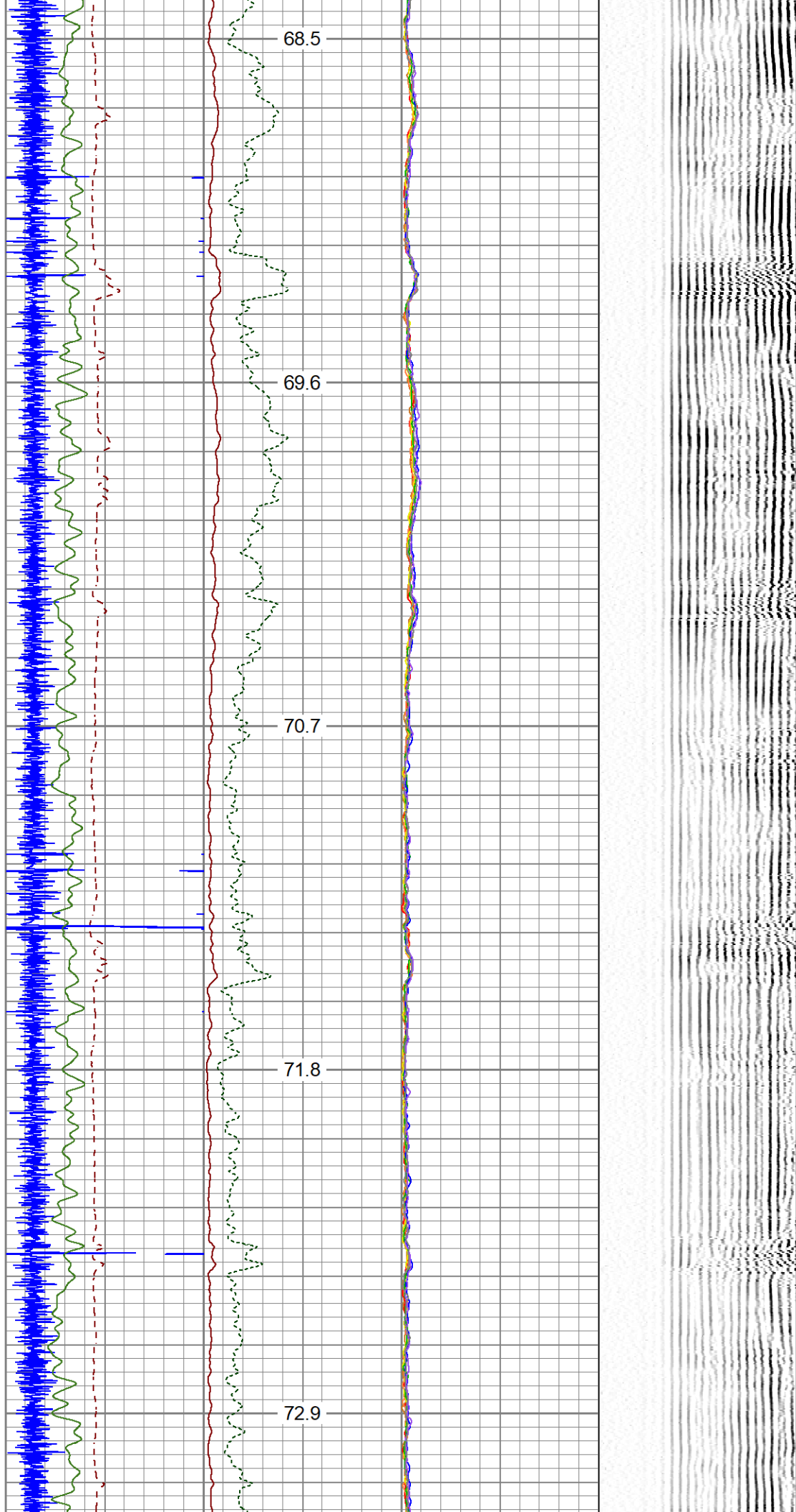
66.7

67.6



600
650
700
750
800

68.5
69.6
70.7
71.8
72.9



850

73.9

900

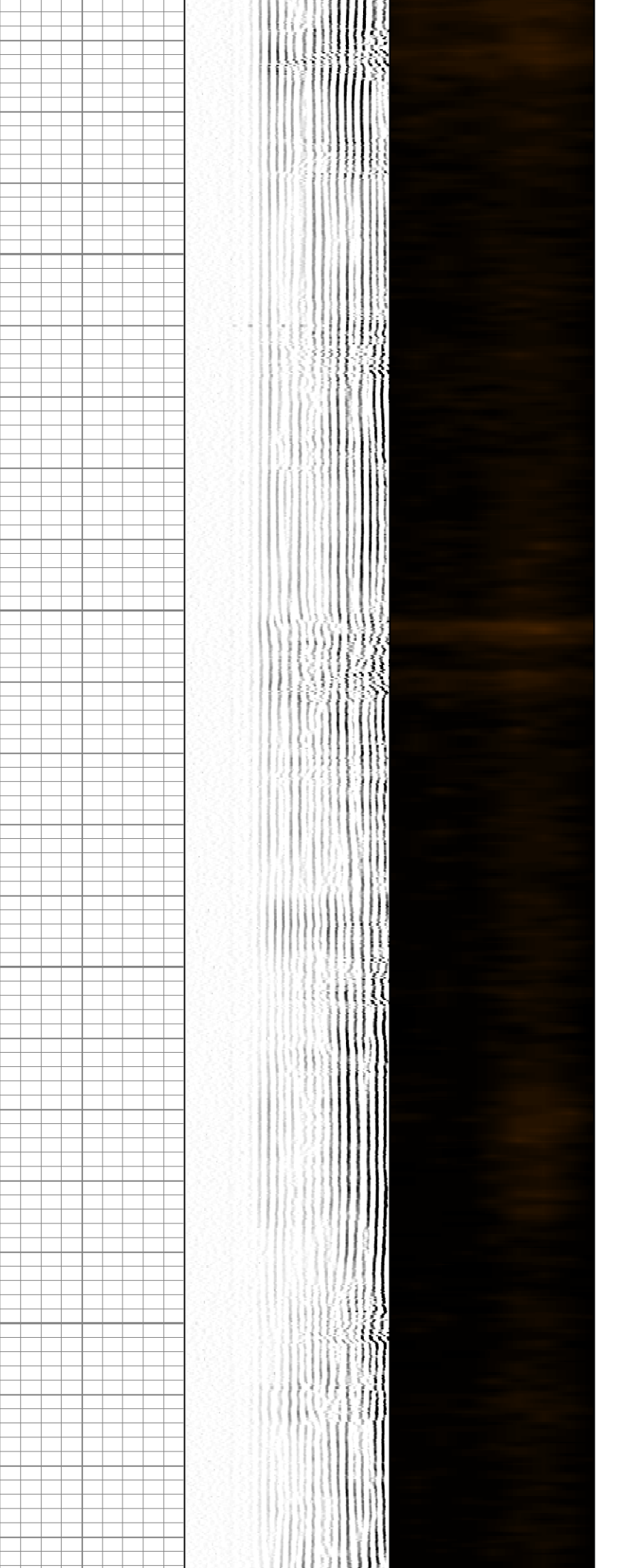
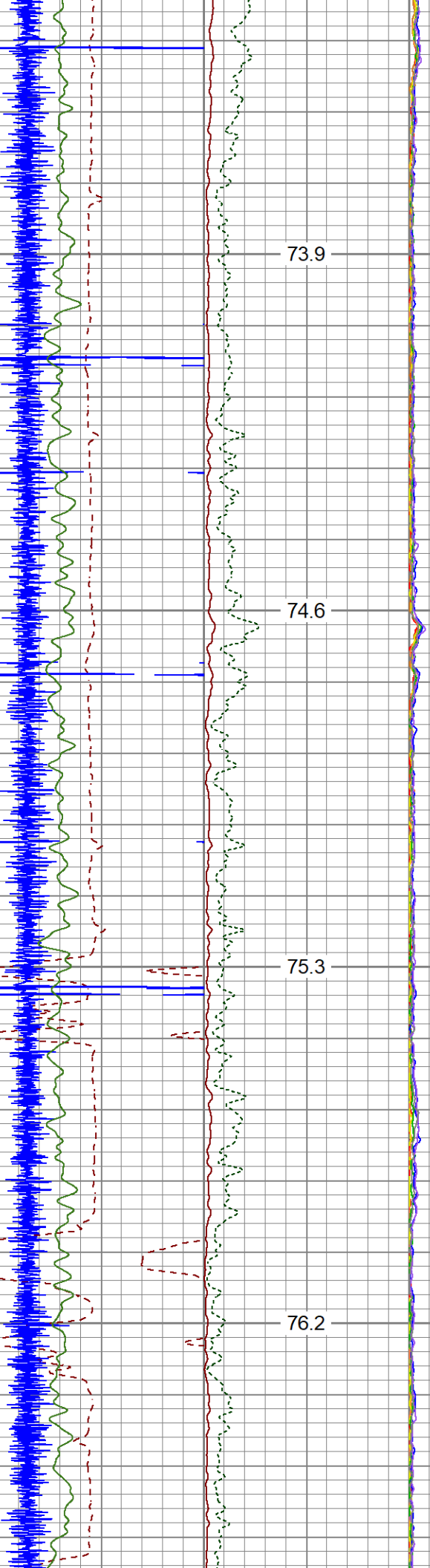
74.6

950

75.3

1000

76.2



1050

1100

1150

1200

1250

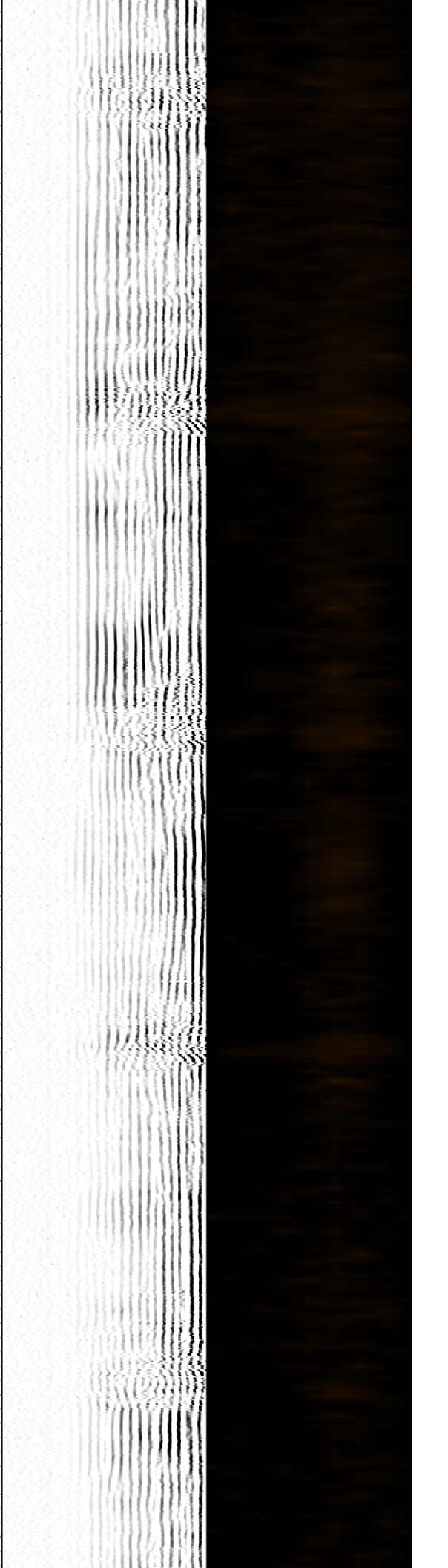
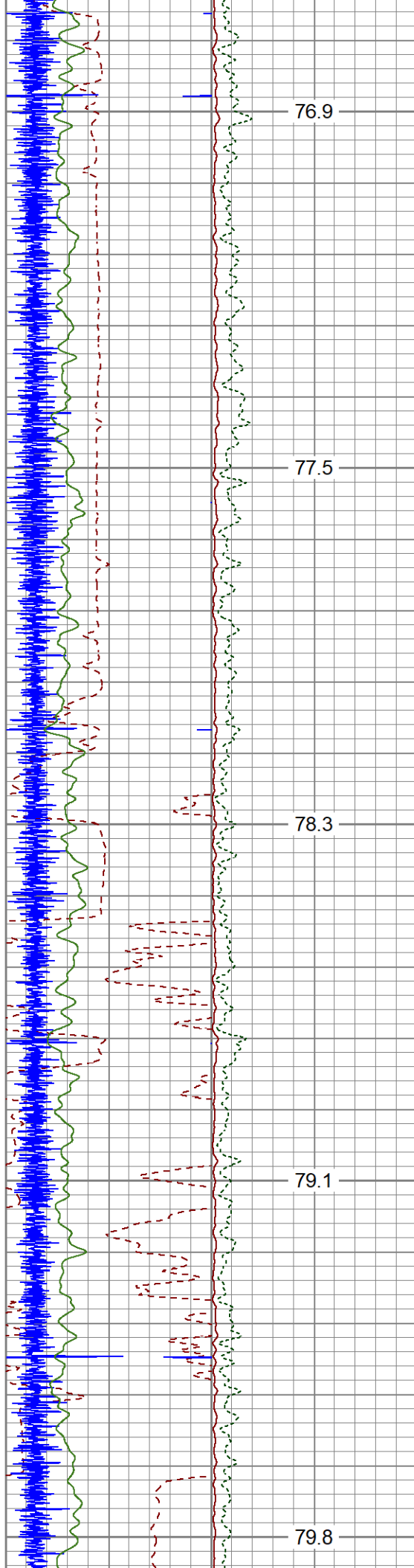
76.9

77.5

78.3

79.1

79.8



1300

1350

1400

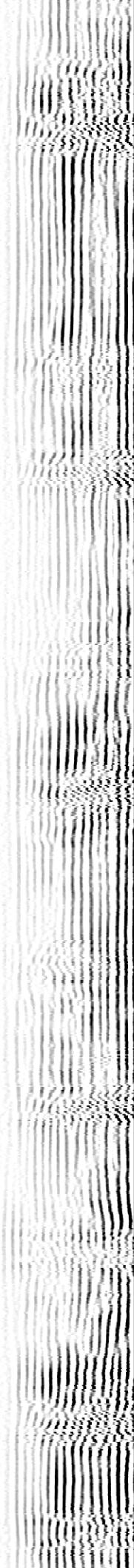
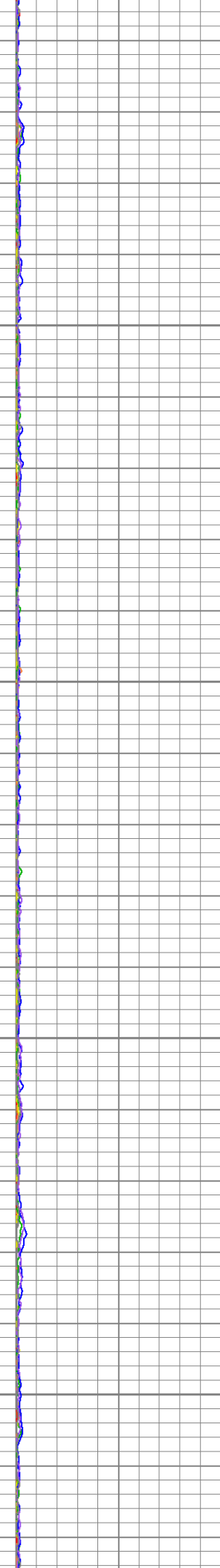
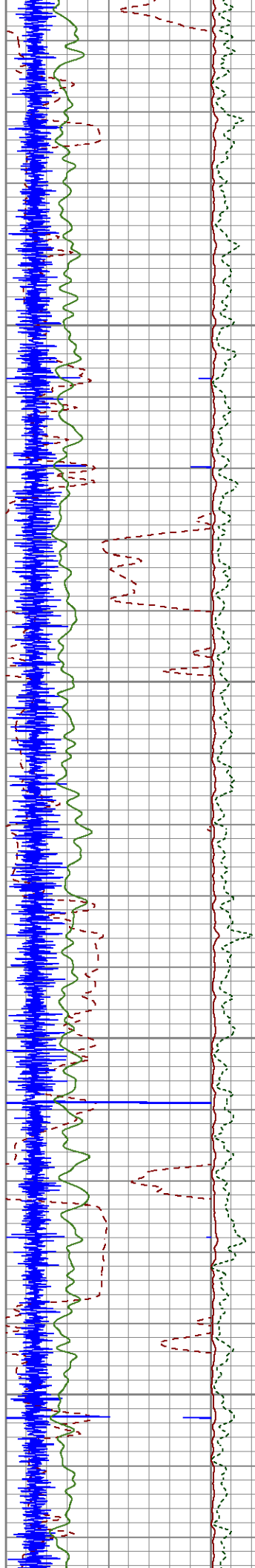
1450

81.0

81.7

82.7

83.7



1500

1550

1600

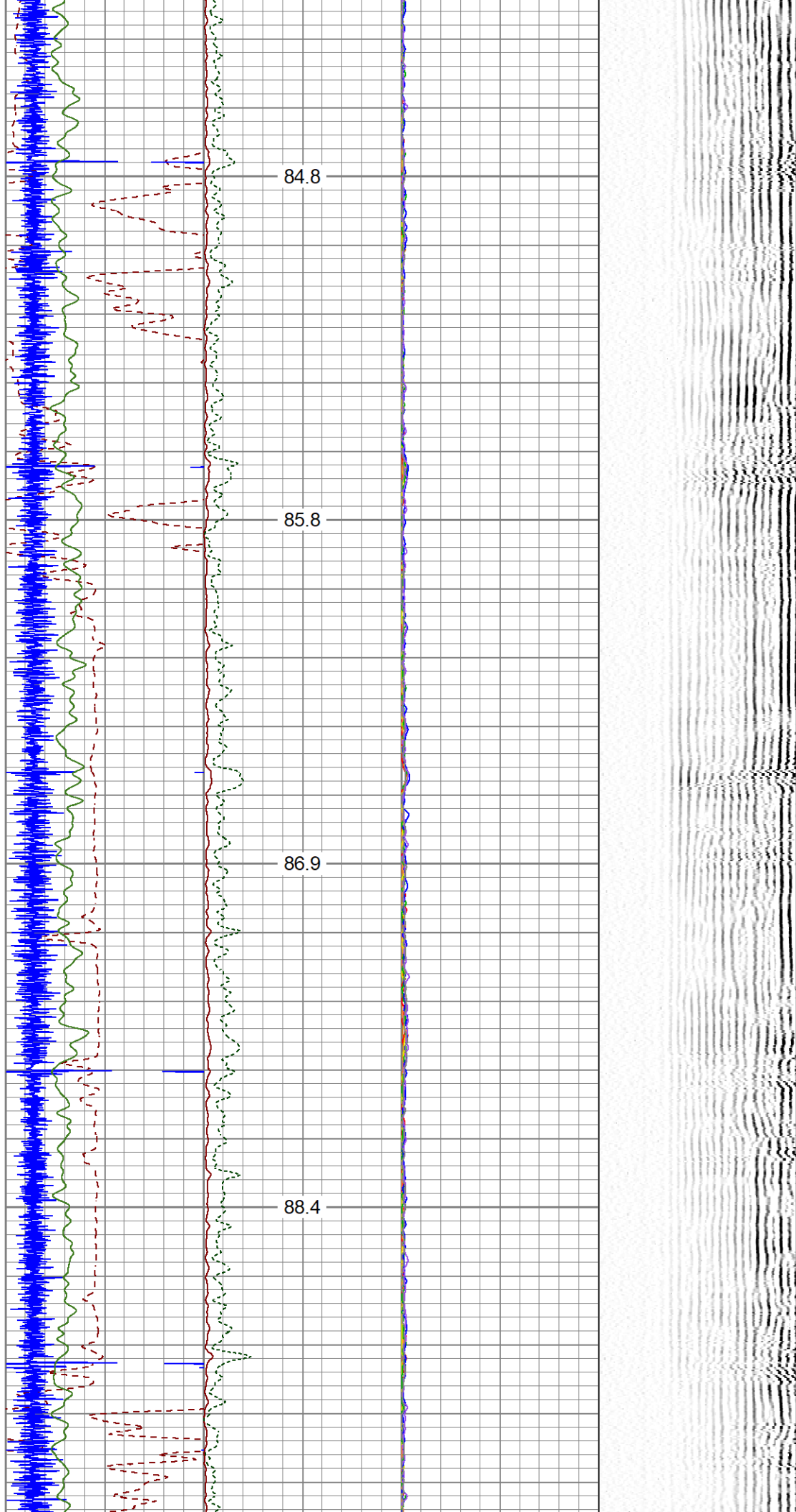
1650

84.8

85.8

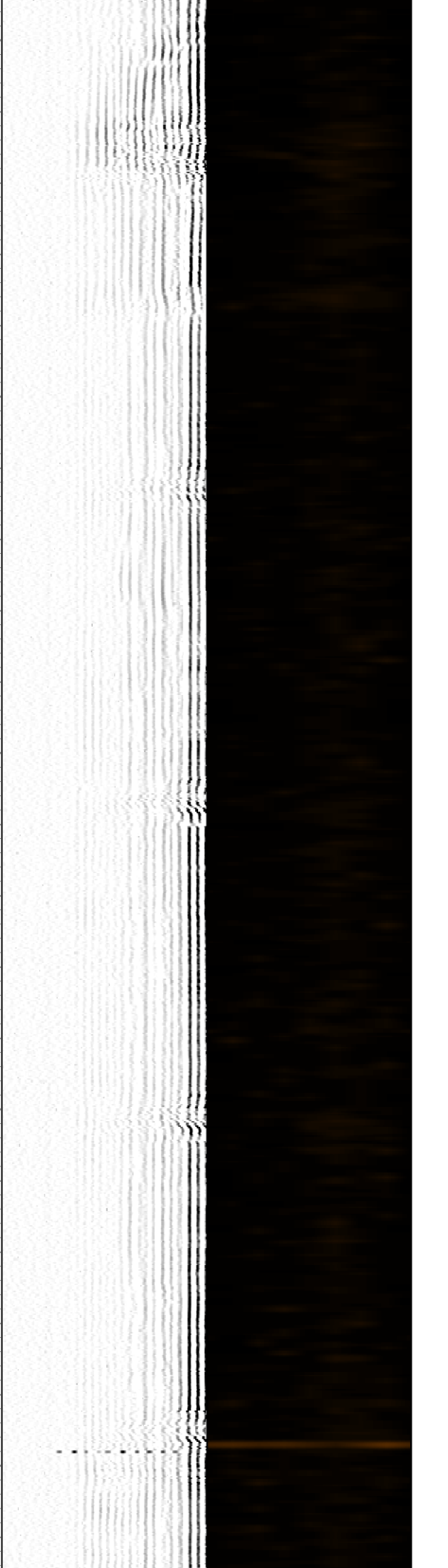
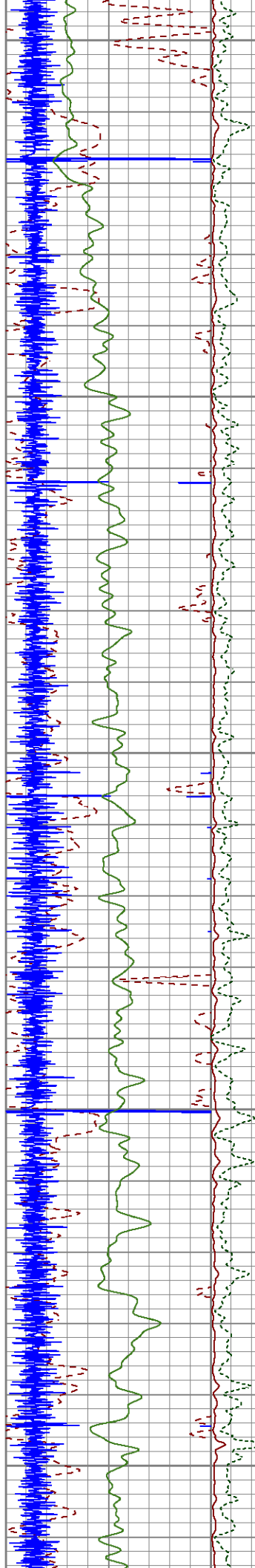
86.9

88.4



1700
1750
1800
1850
1900

89.6
90.8
92.0
93.4
95.0



1950

96.3

2000

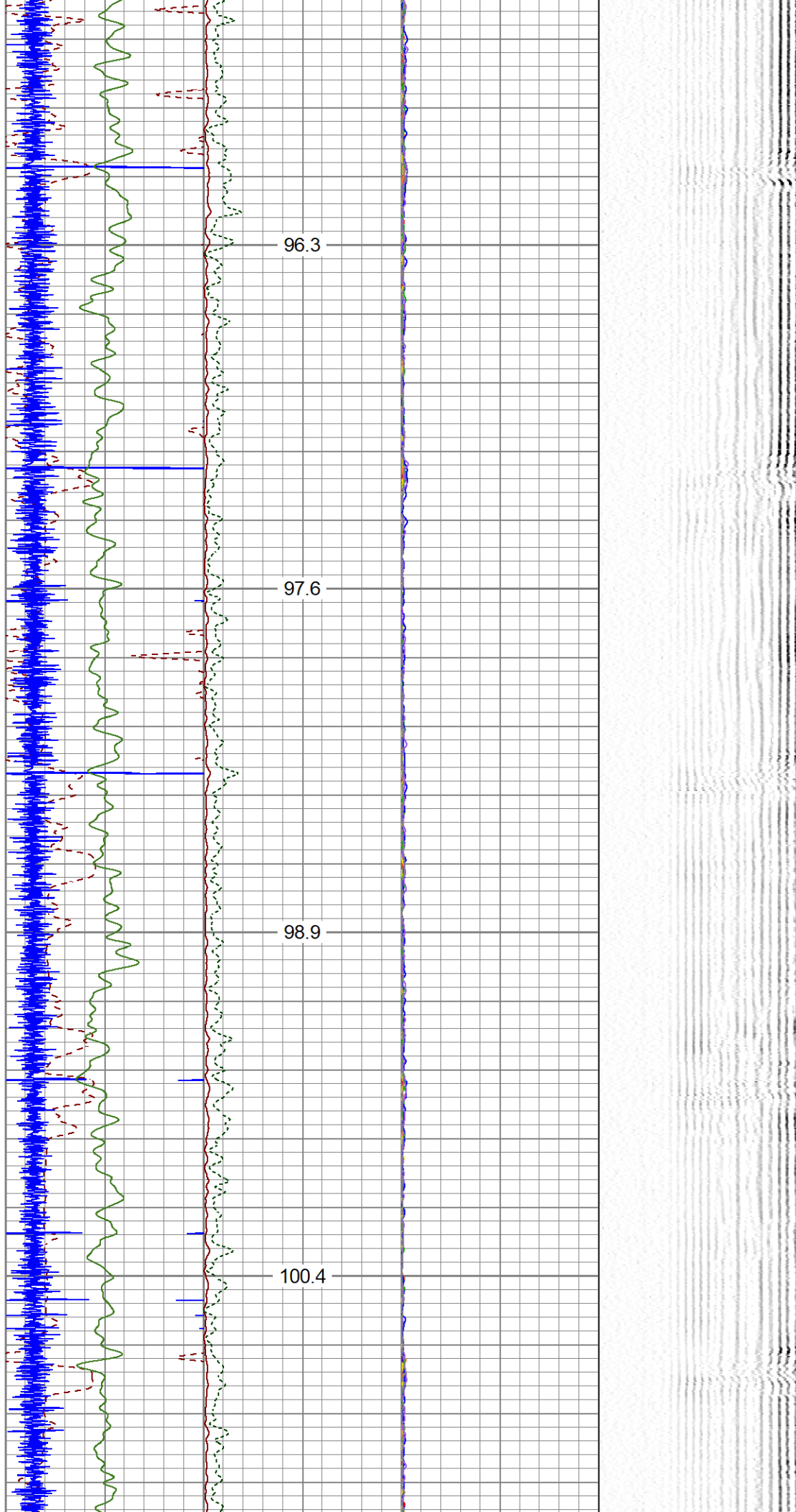
97.6

2050

98.9

2100

100.4



2150

101.8

2200

103.3

2250

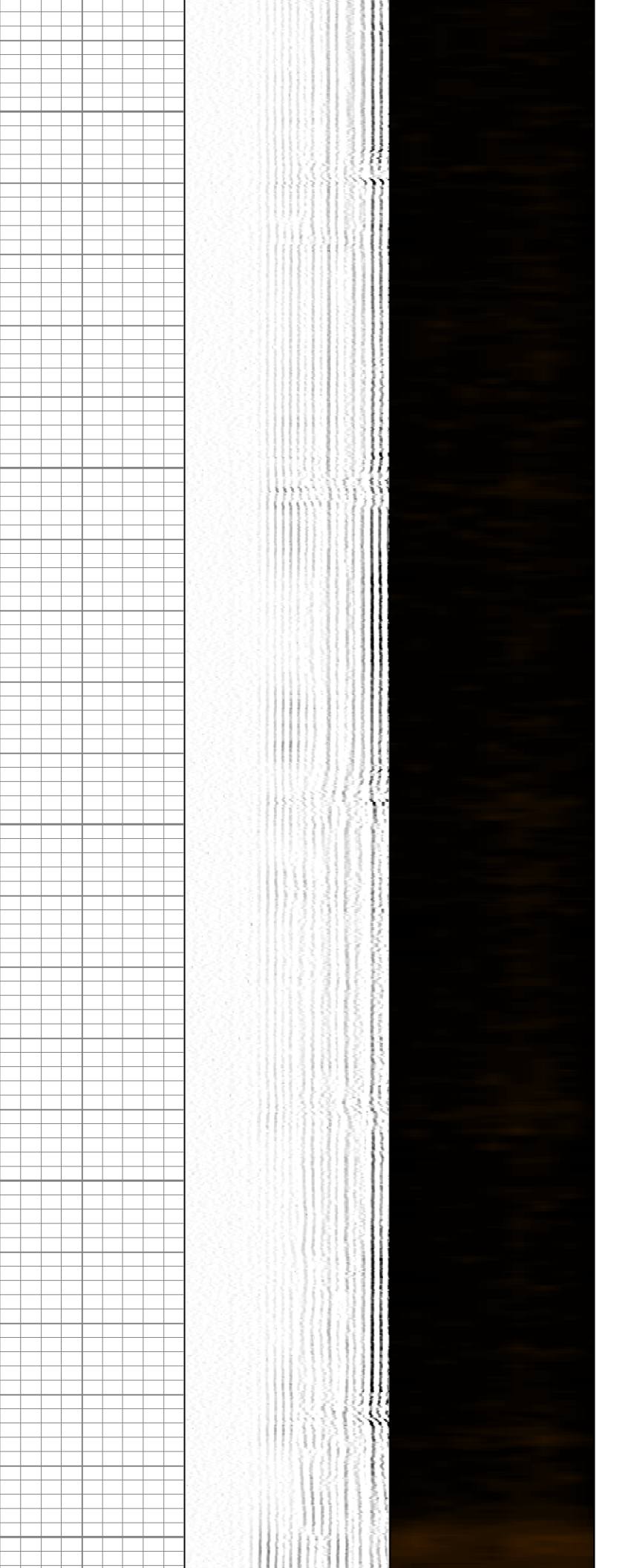
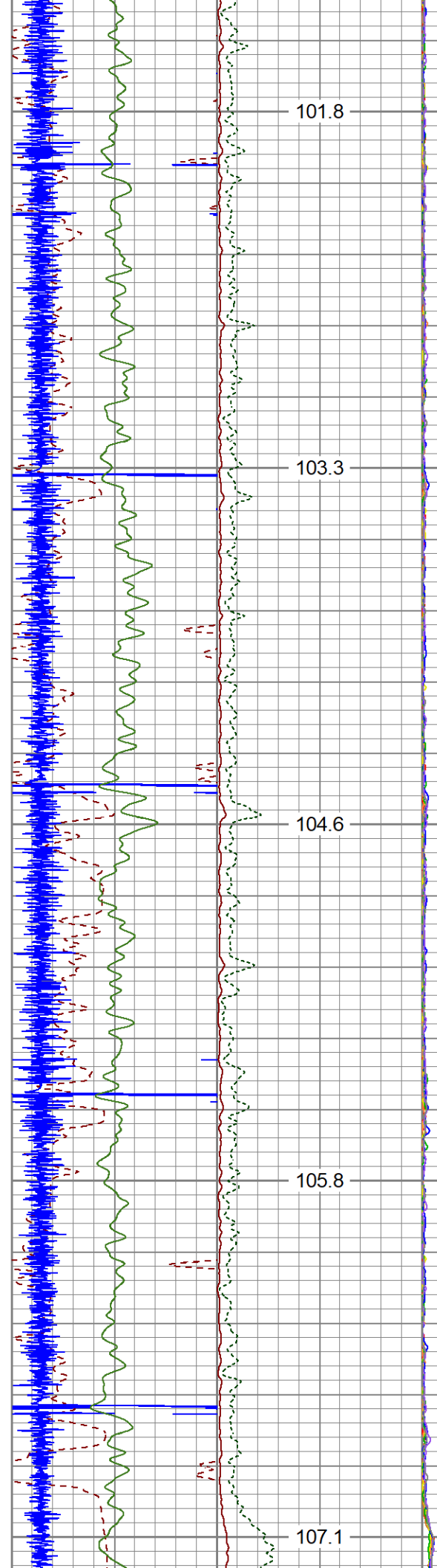
104.6

2300

105.8

2350

107.1



2400

108.5

2450

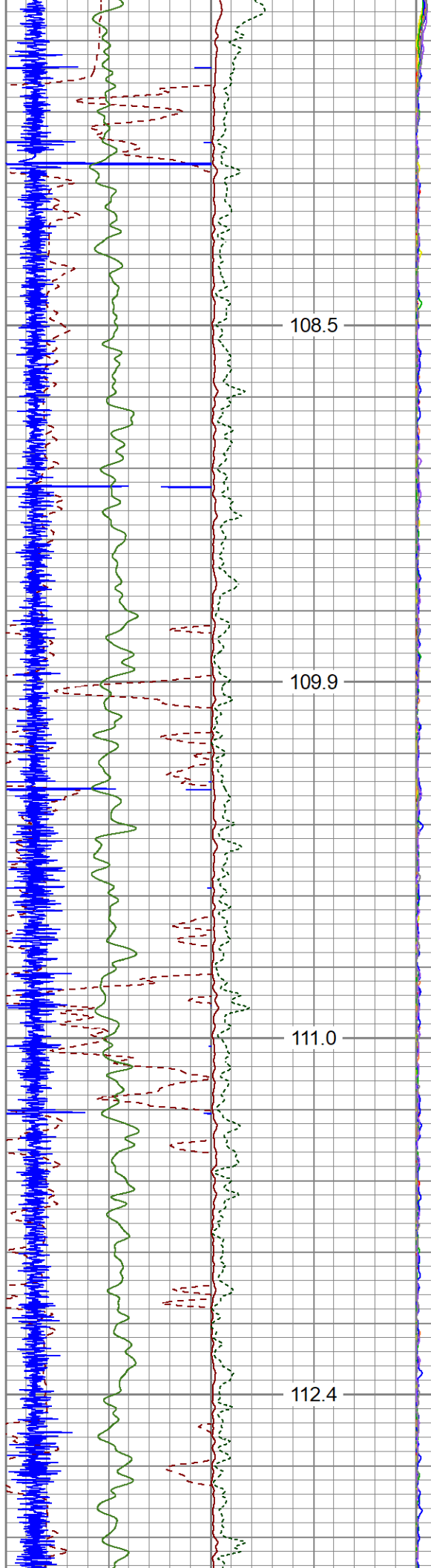
109.9

2500

111.0

2550

112.4



2600

113.7

2650

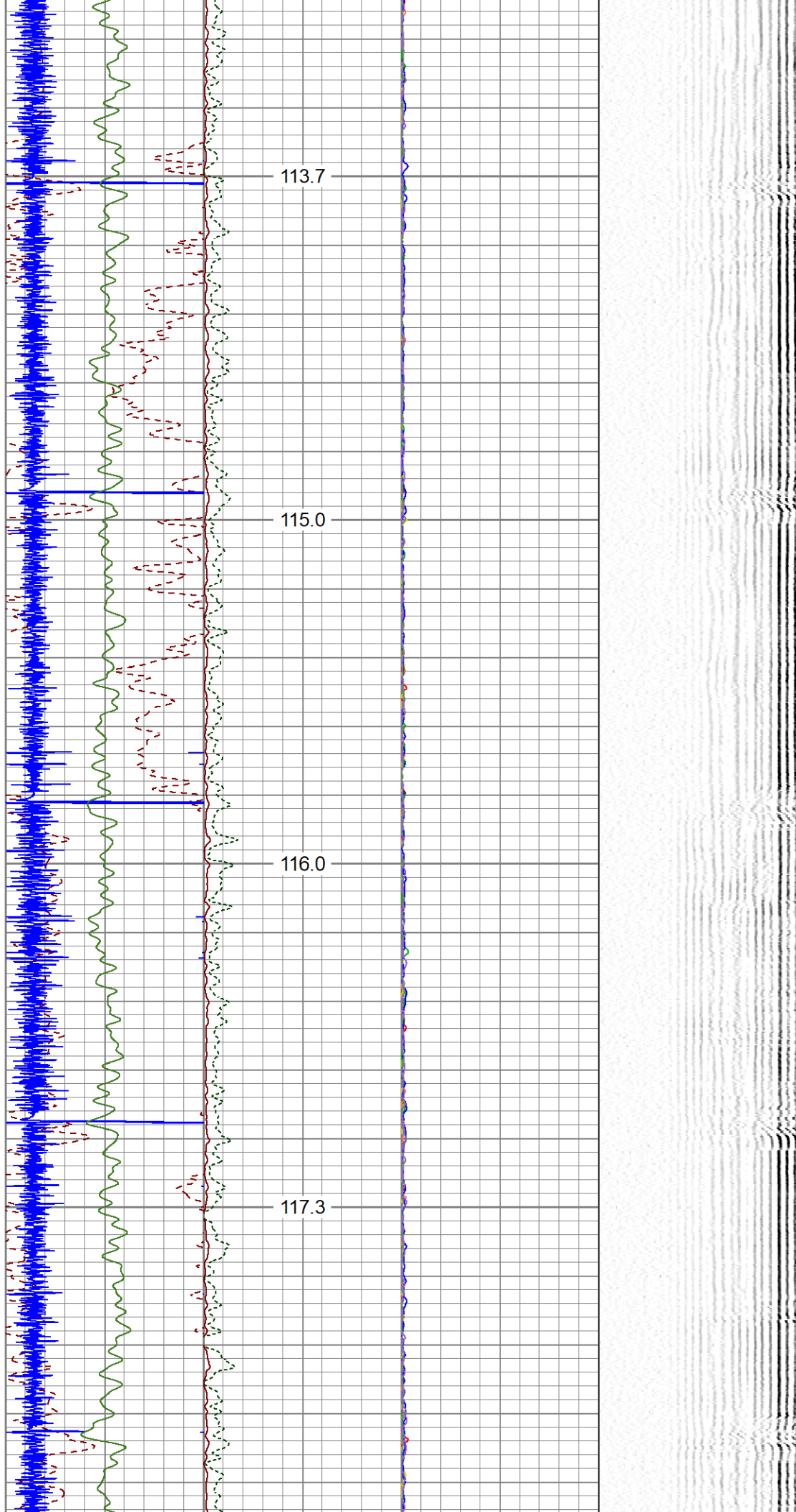
115.0

2700

116.0

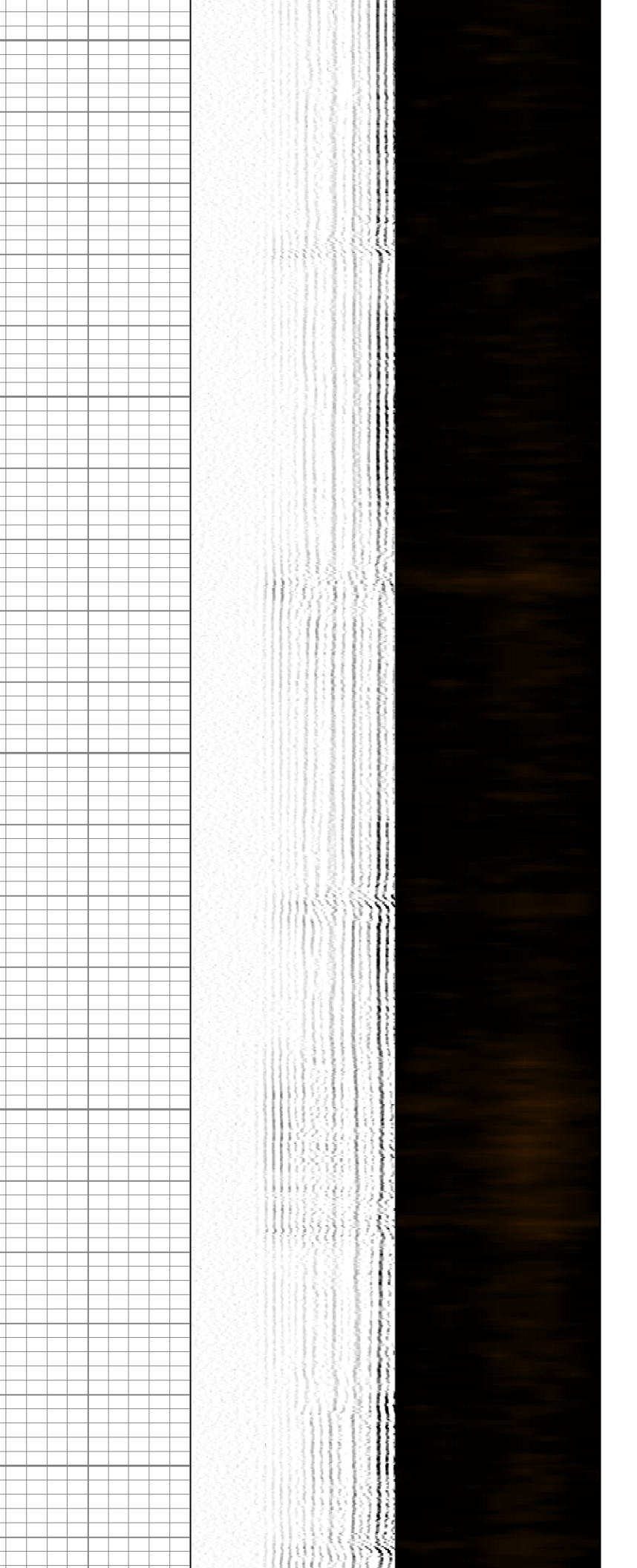
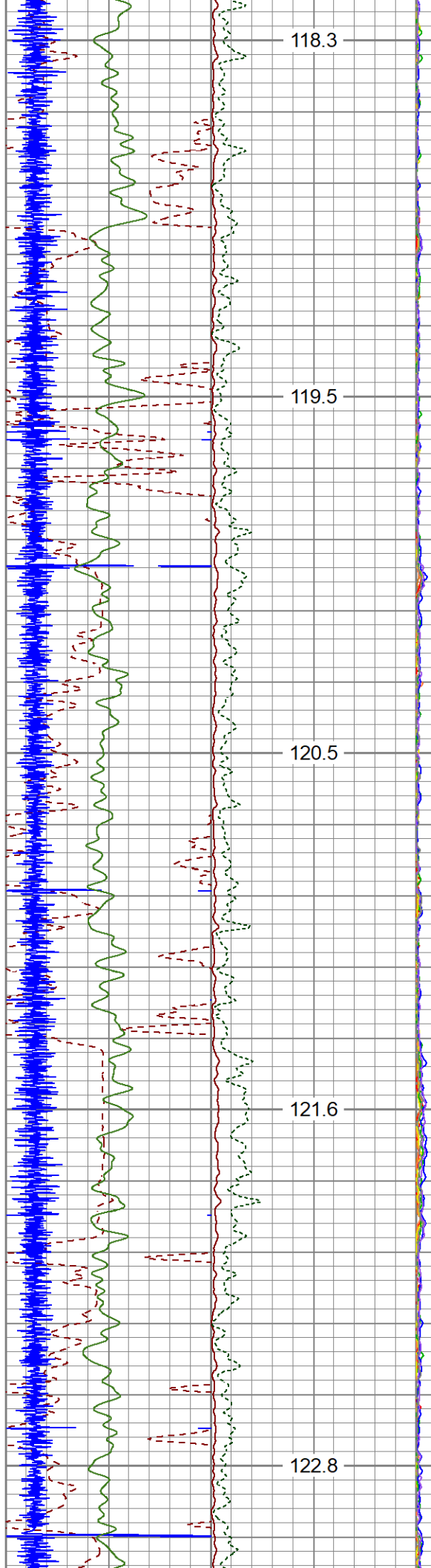
2750

117.3



2800
2850
2900
2950
3000

118.3
119.5
120.5
121.6
122.8



3050

123.9

3100

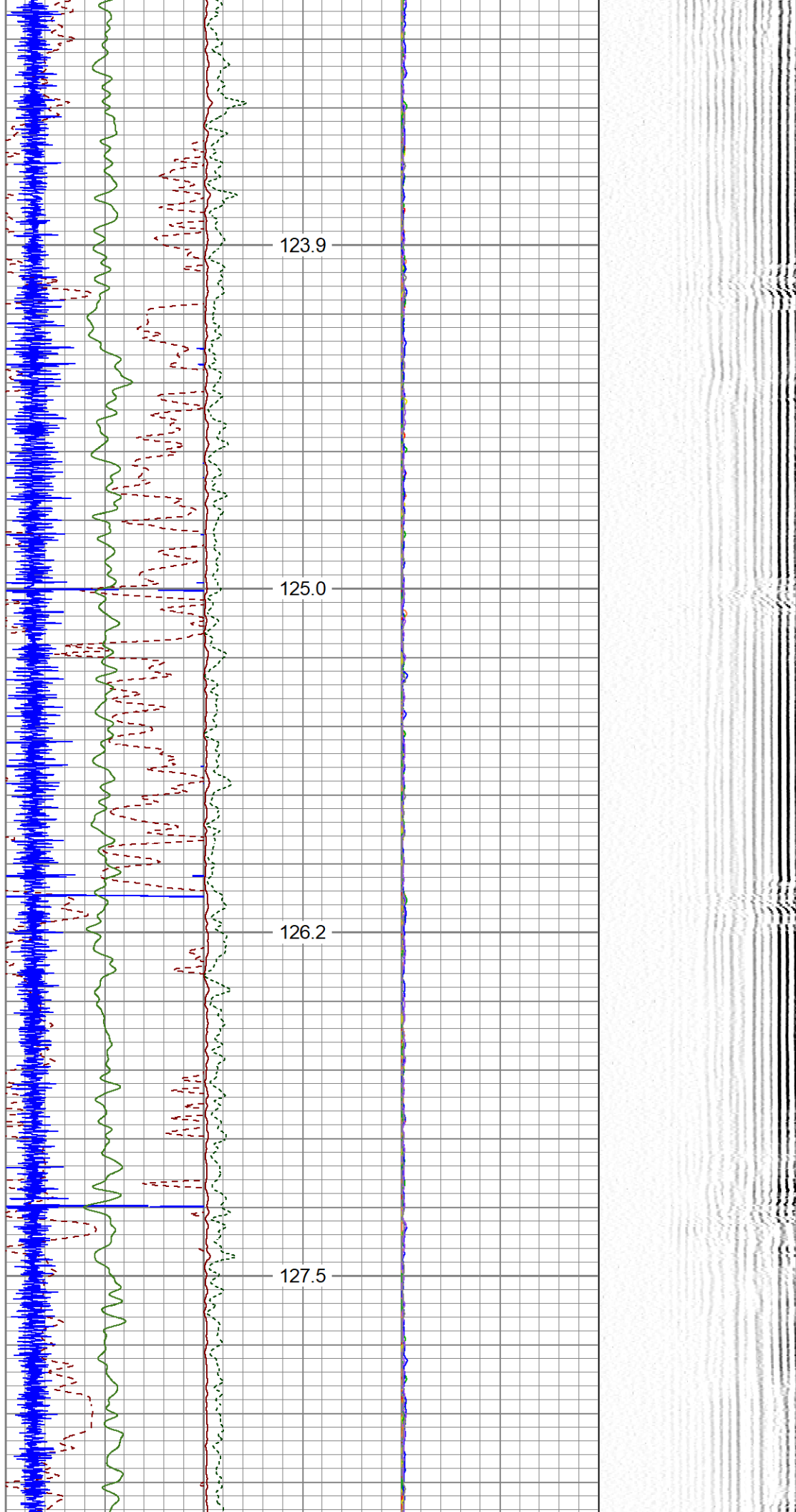
125.0

3150

126.2

3200

127.5



3250

128.9

3300

130.4

3350

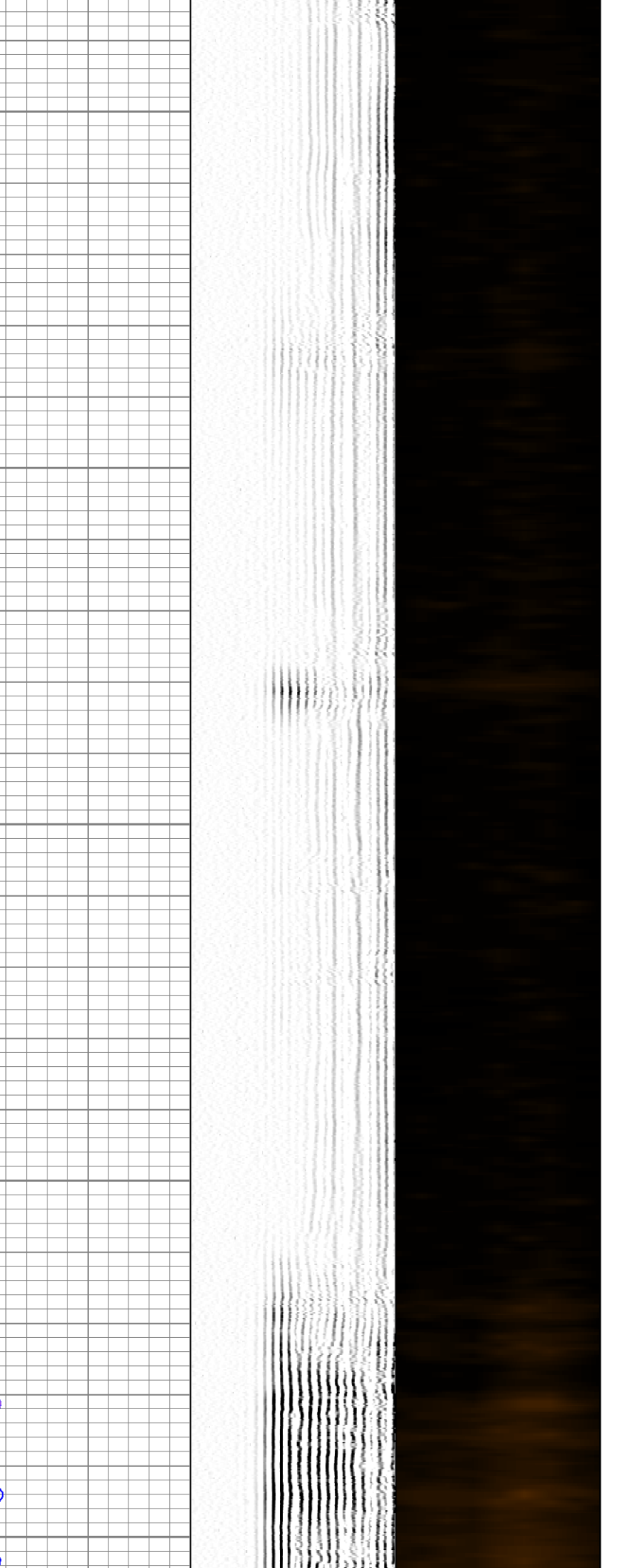
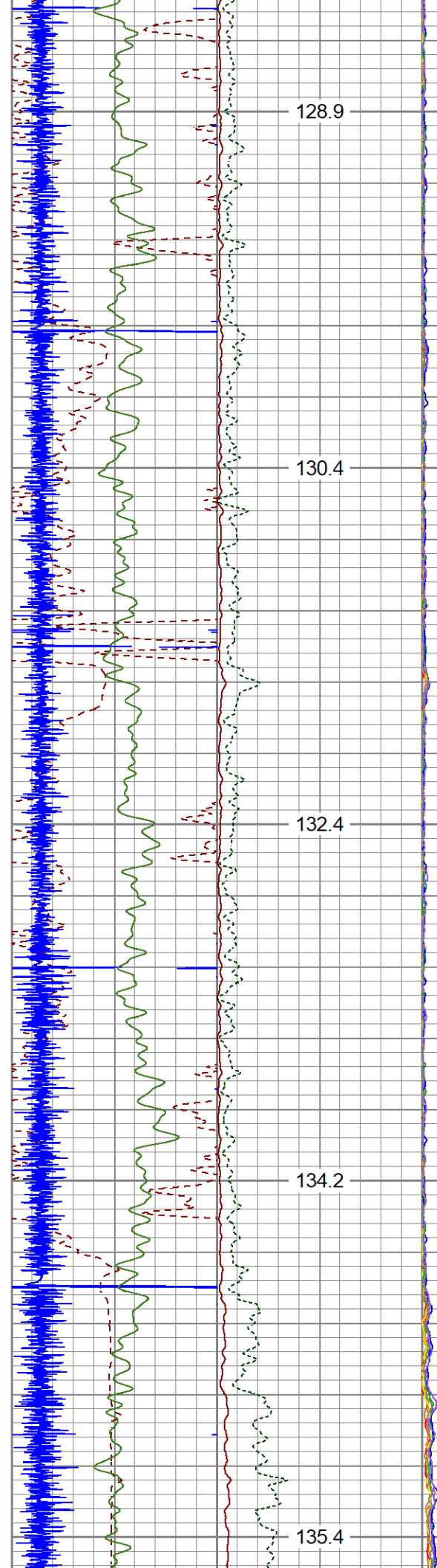
132.4

3400

134.2

3450

135.4



3500

3550

3600

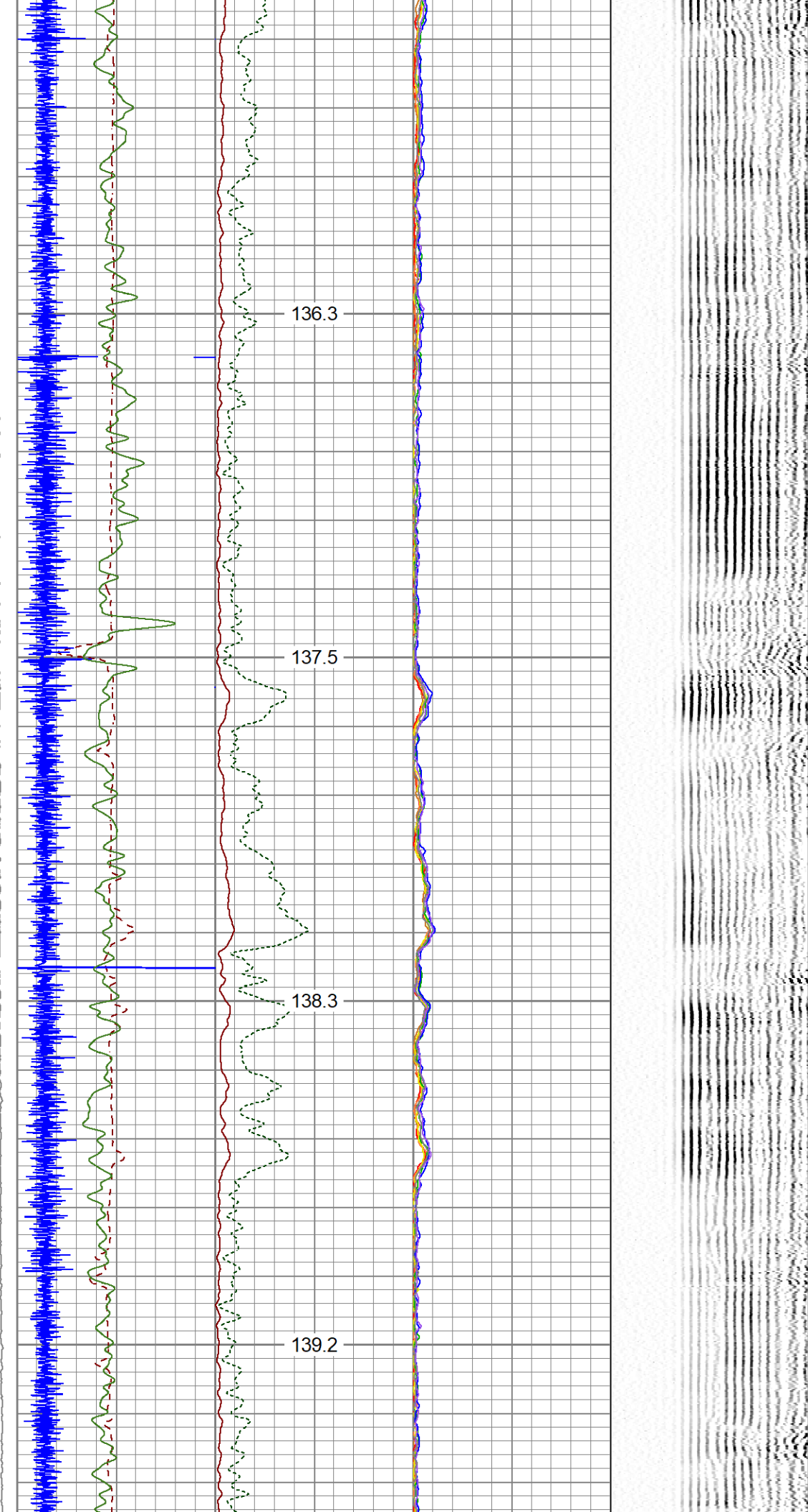
3650

136.3

137.5

138.3

139.2



3700

3750

3800

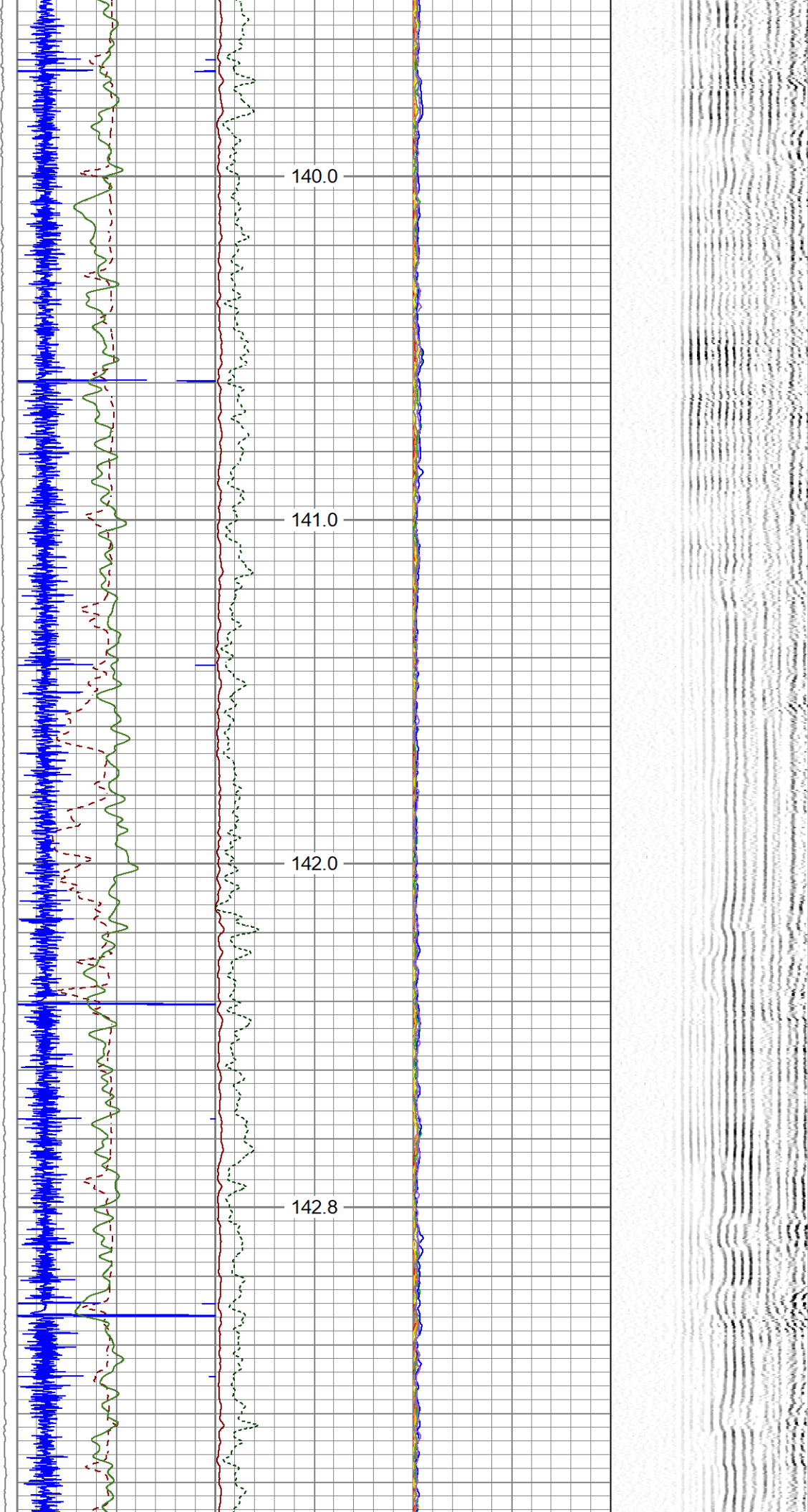
3850

140.0

141.0

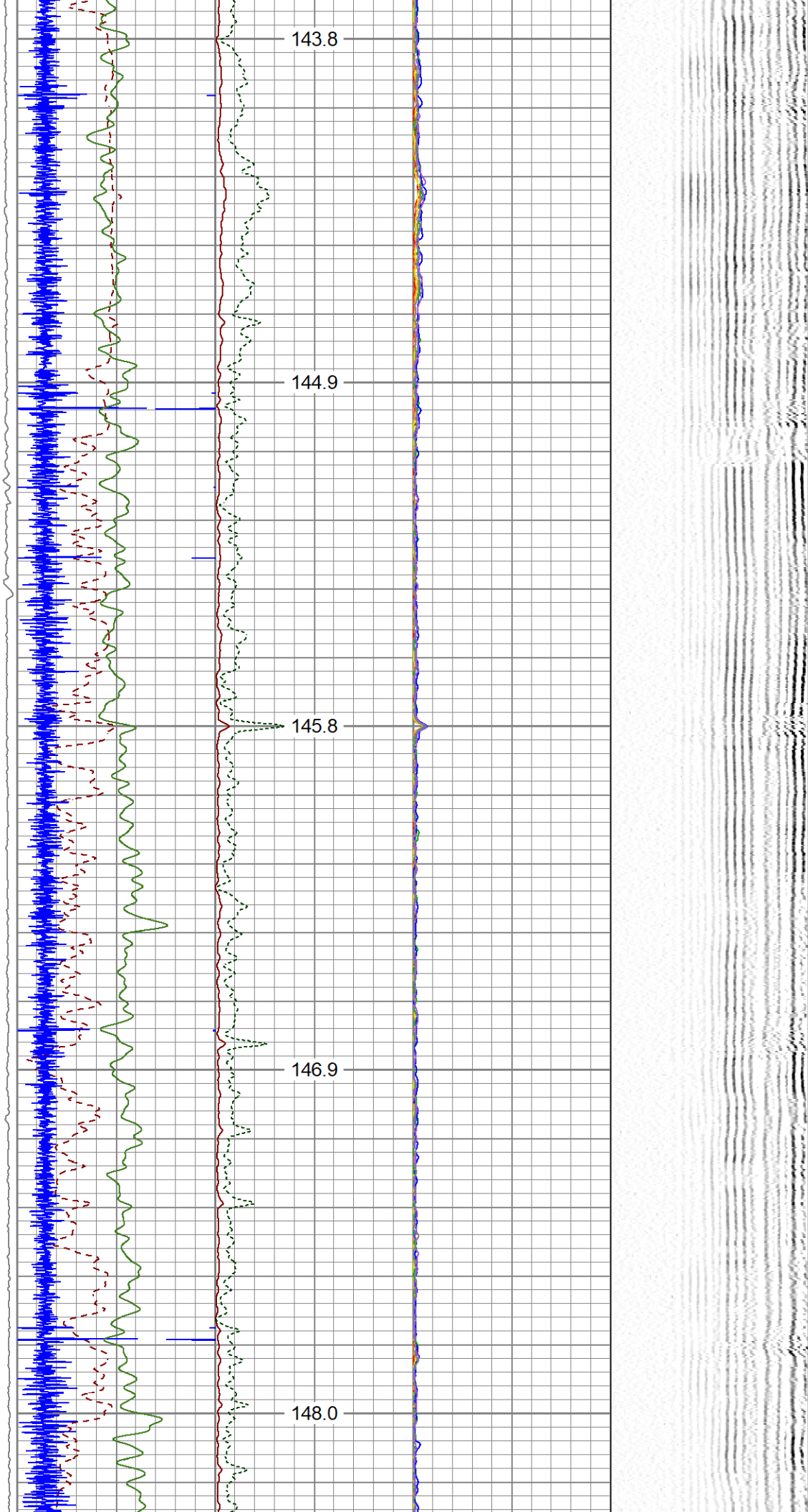
142.0

142.8



3900
3950
4000
4050
4100

143.8
144.9
145.8
146.9
148.0



4150

149.3

4200

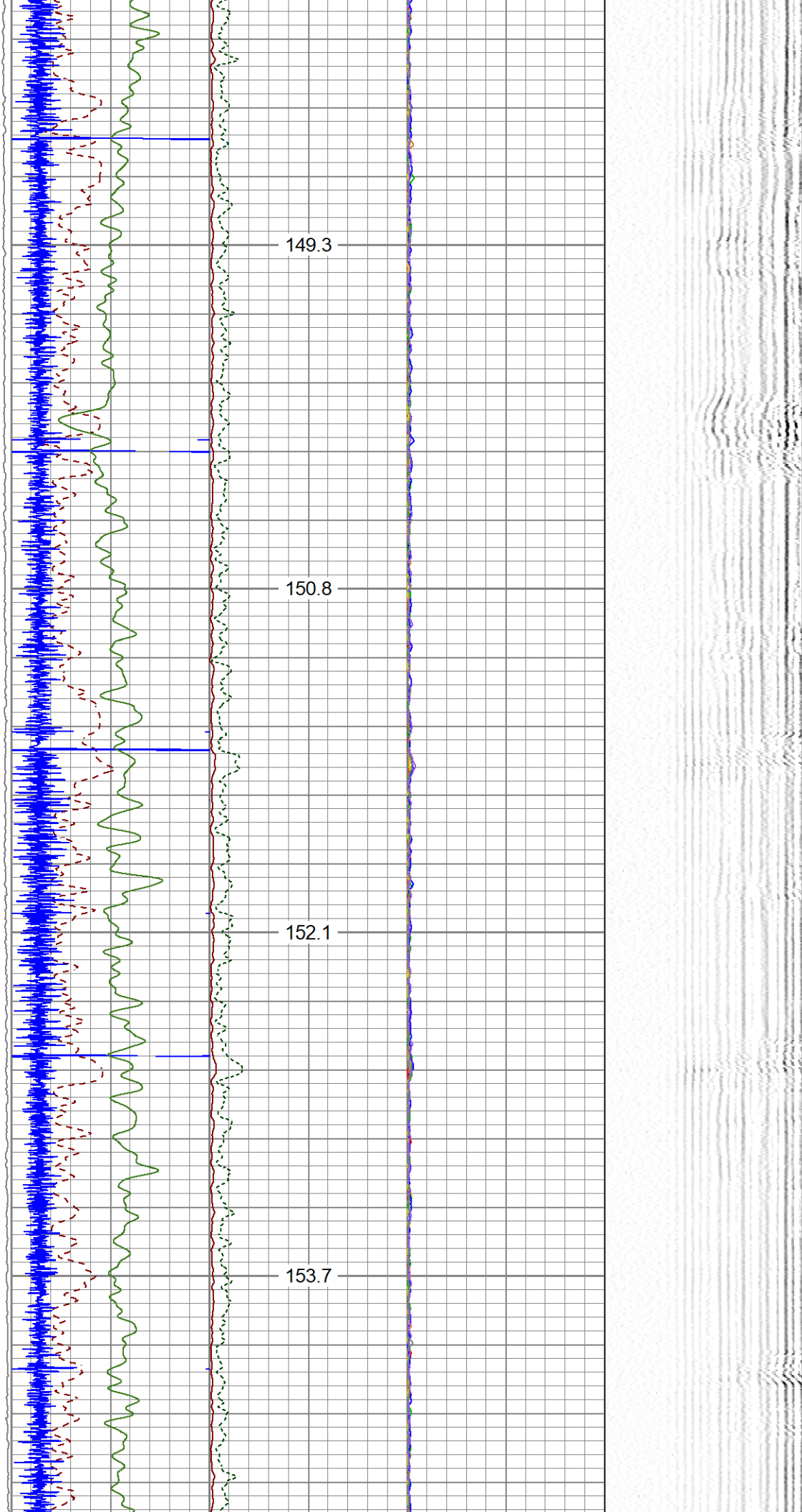
150.8

4250

152.1

4300

153.7



4350

155.1

4400

156.6

4450

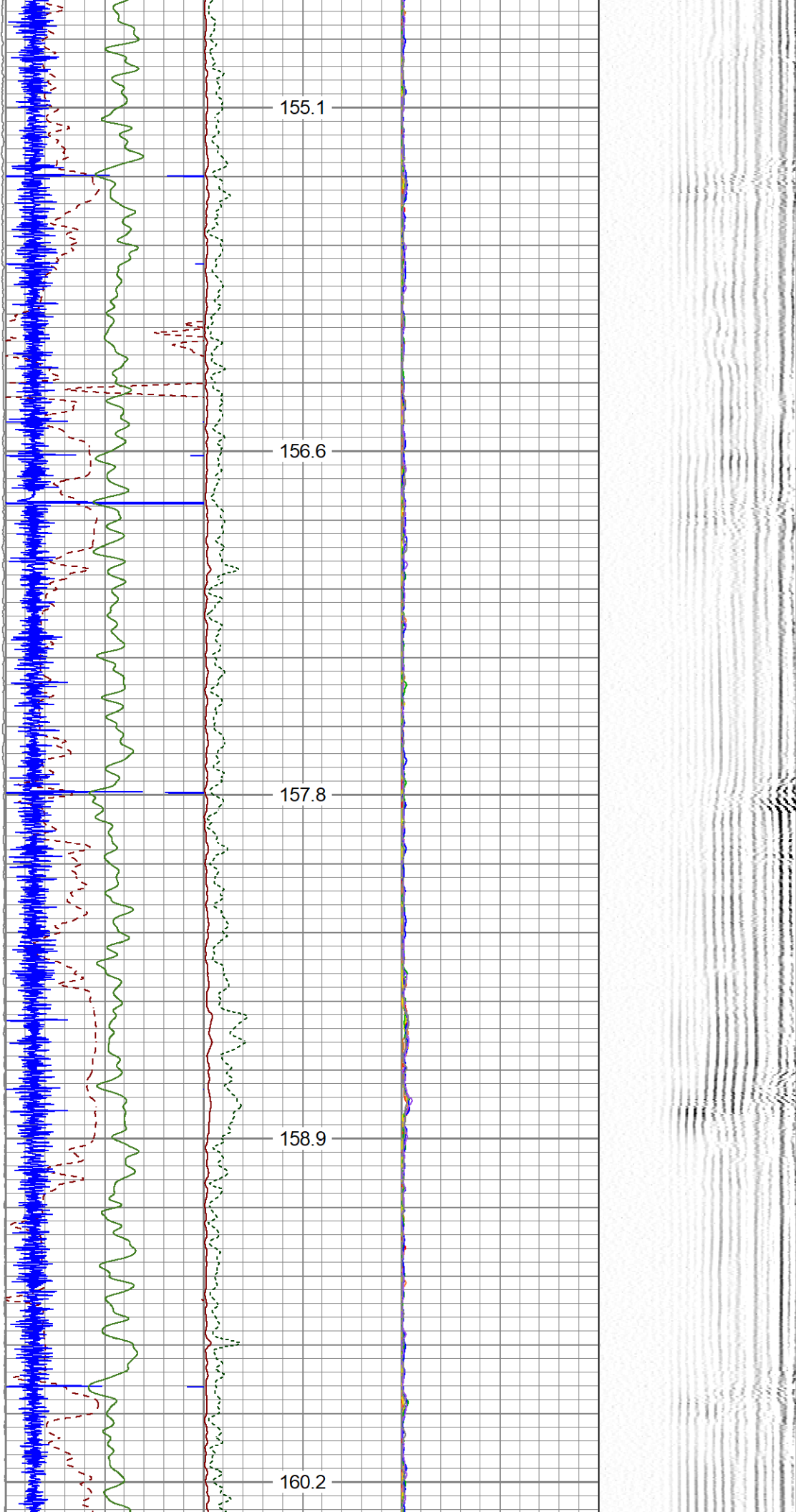
157.8

4500

158.9

4550

160.2



4600

4650

4700

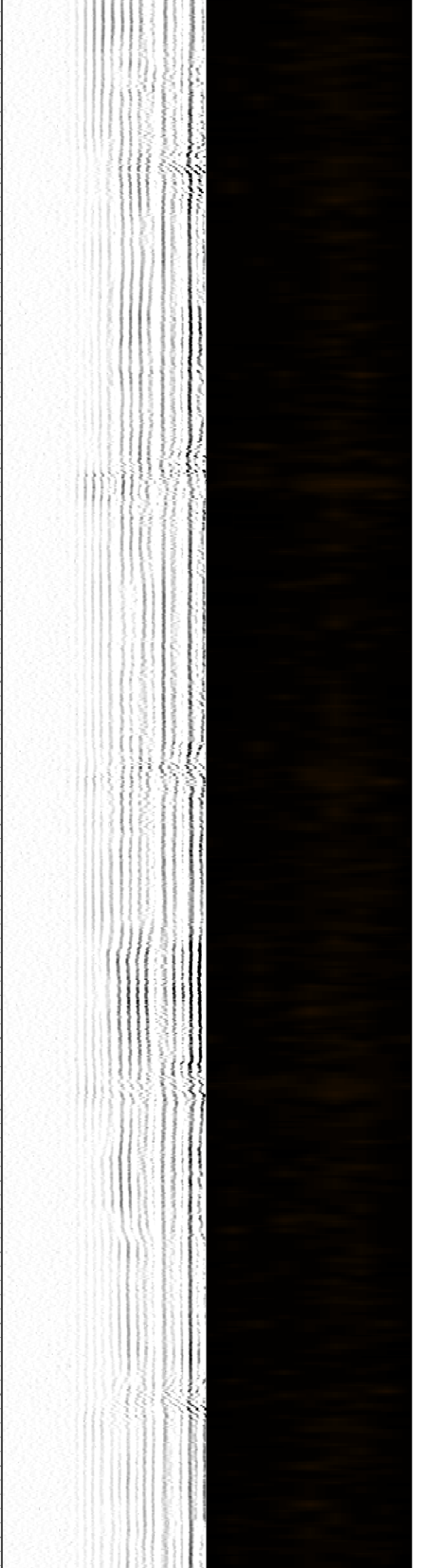
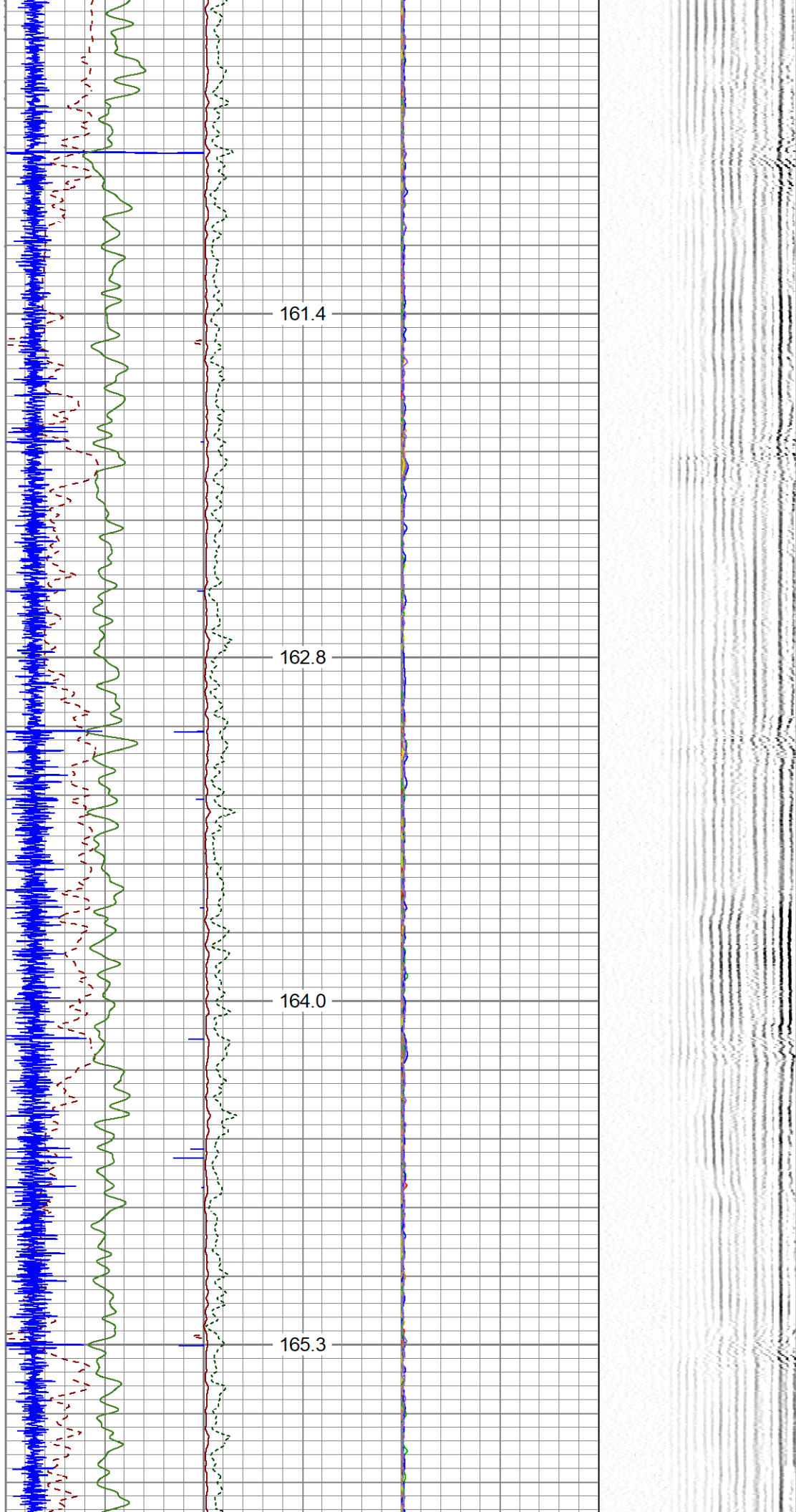
4750

161.4

162.8

164.0

165.3



4800

166.7

4850

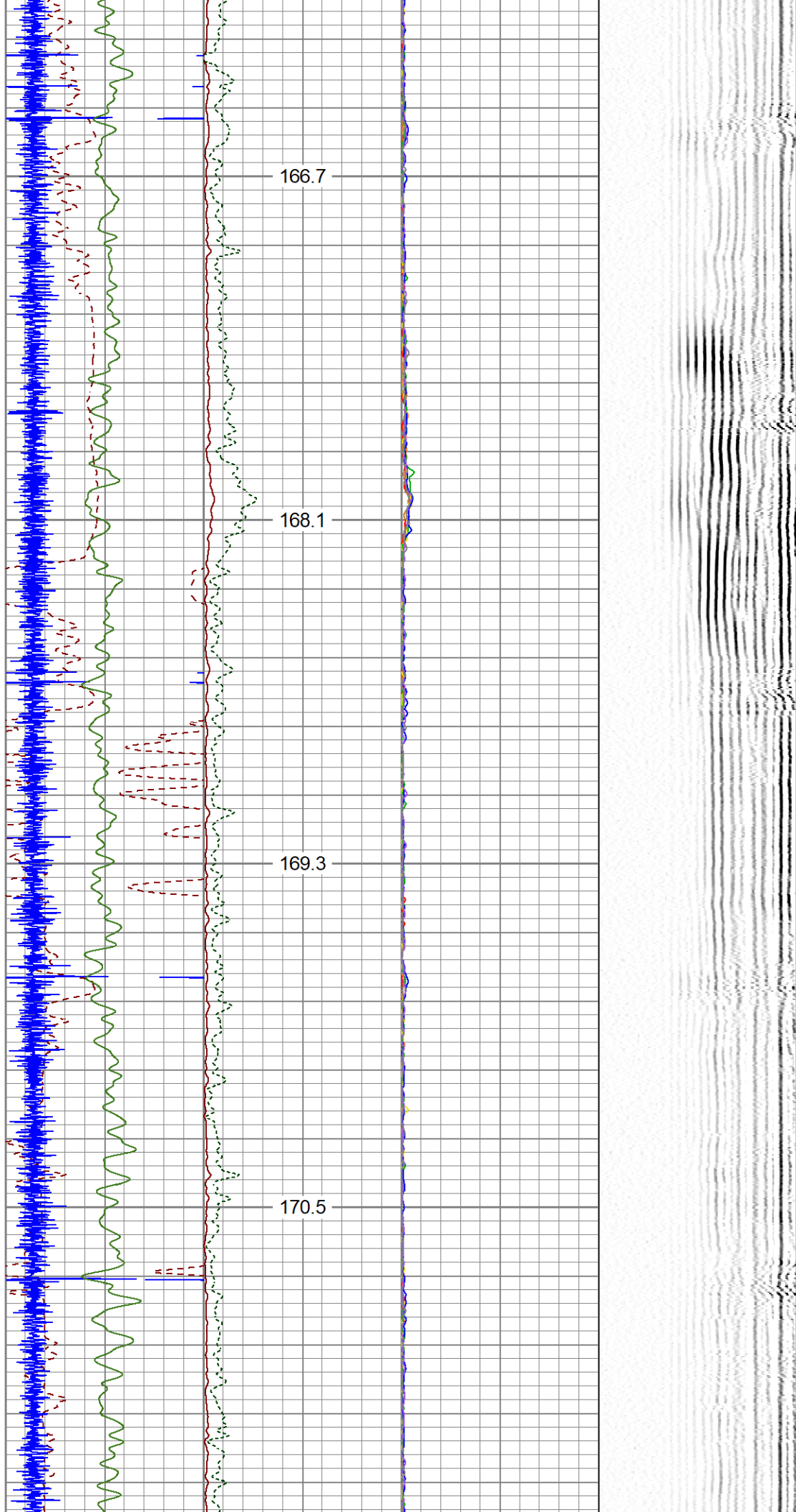
168.1

4900

169.3

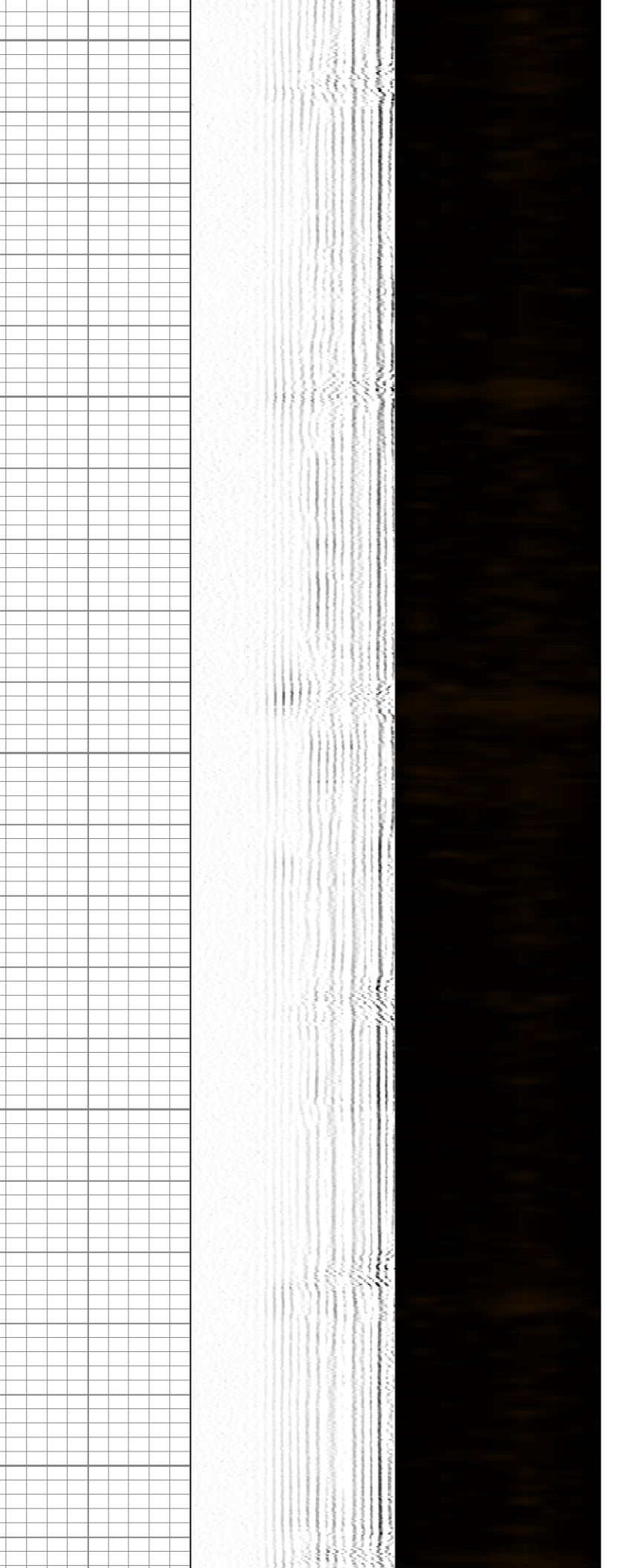
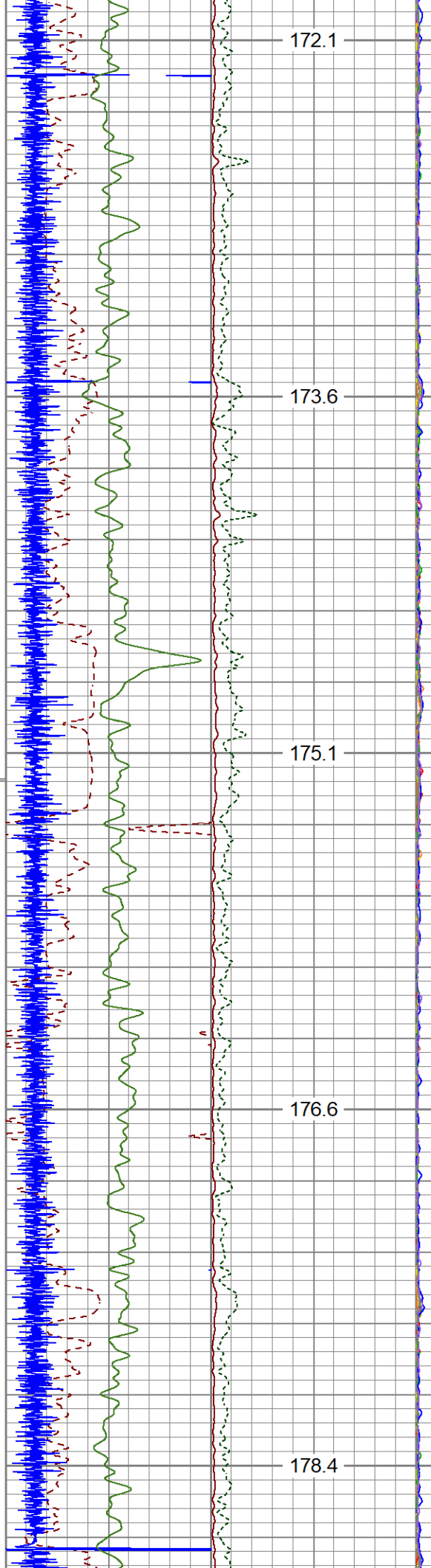
4950

170.5



5000
5050
5100
5150
5200

172.1
173.6
175.1
176.6
178.4



5250

180.3

5300

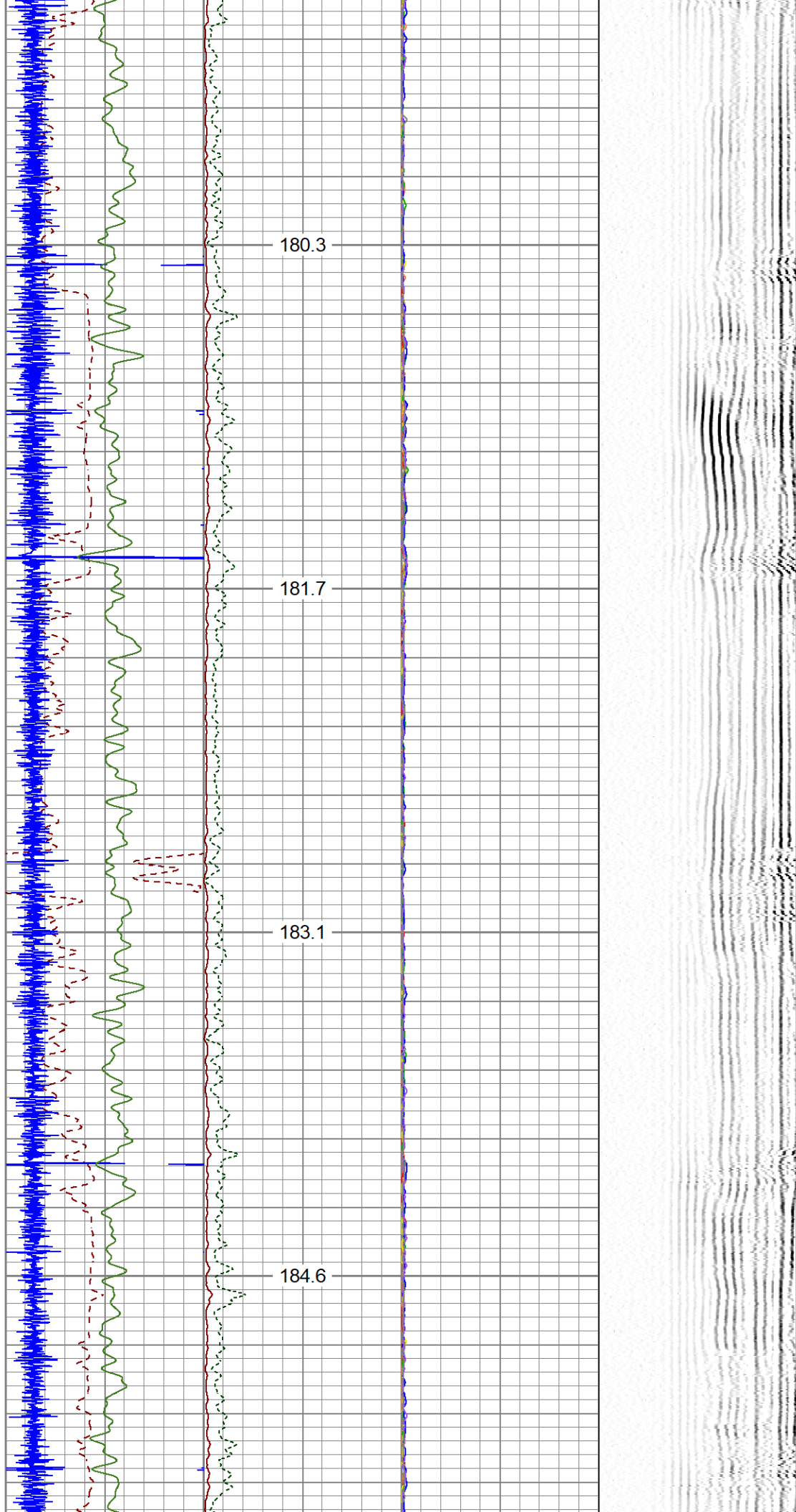
181.7

5350

183.1

5400

184.6



5450

186.4

5500

188.3

5550

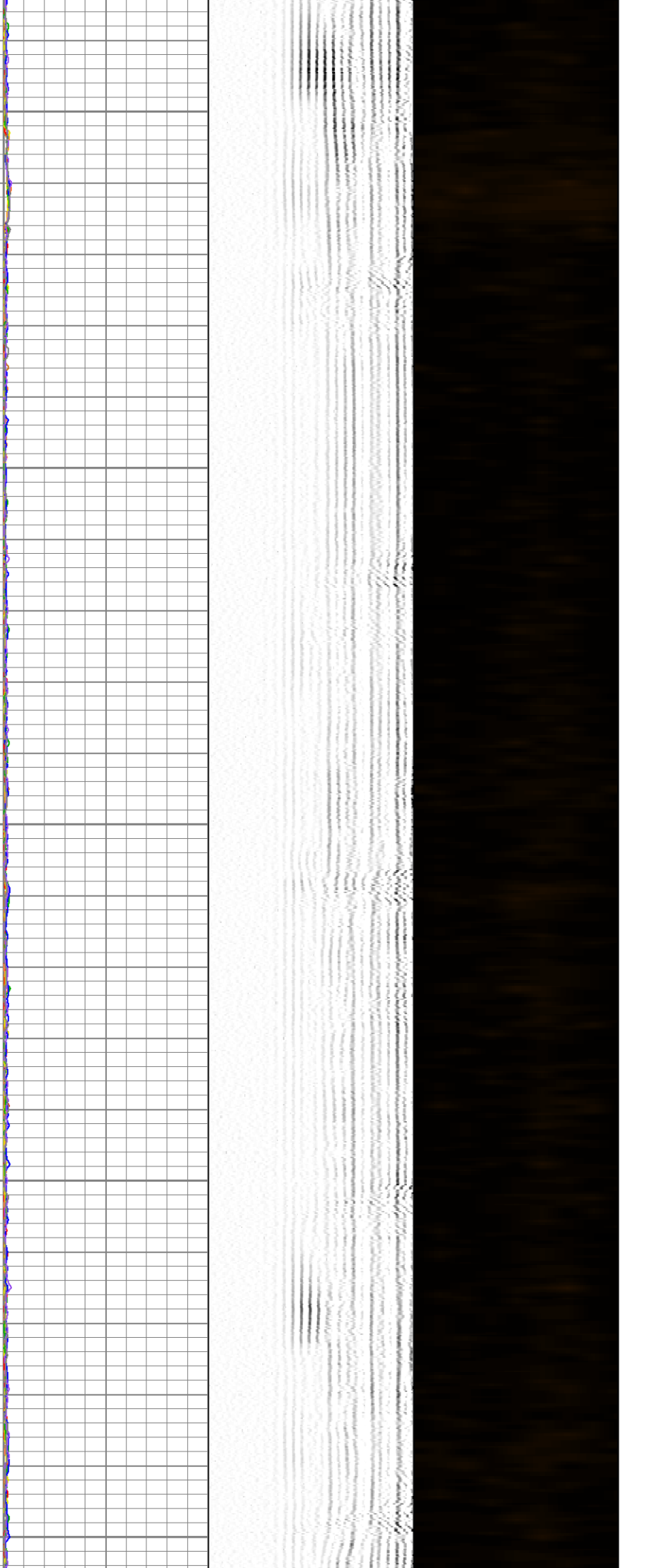
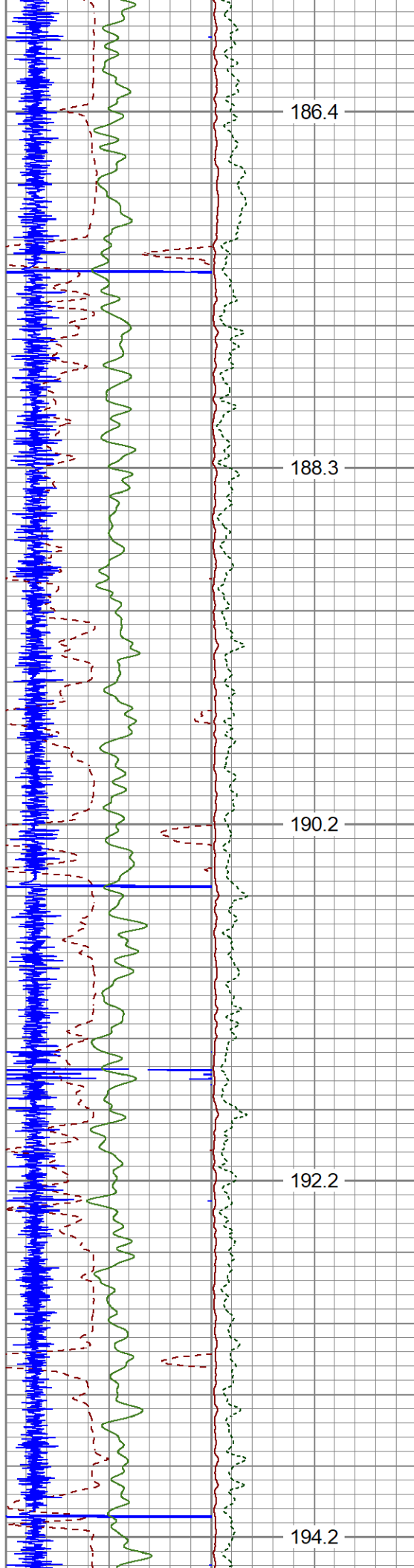
190.2

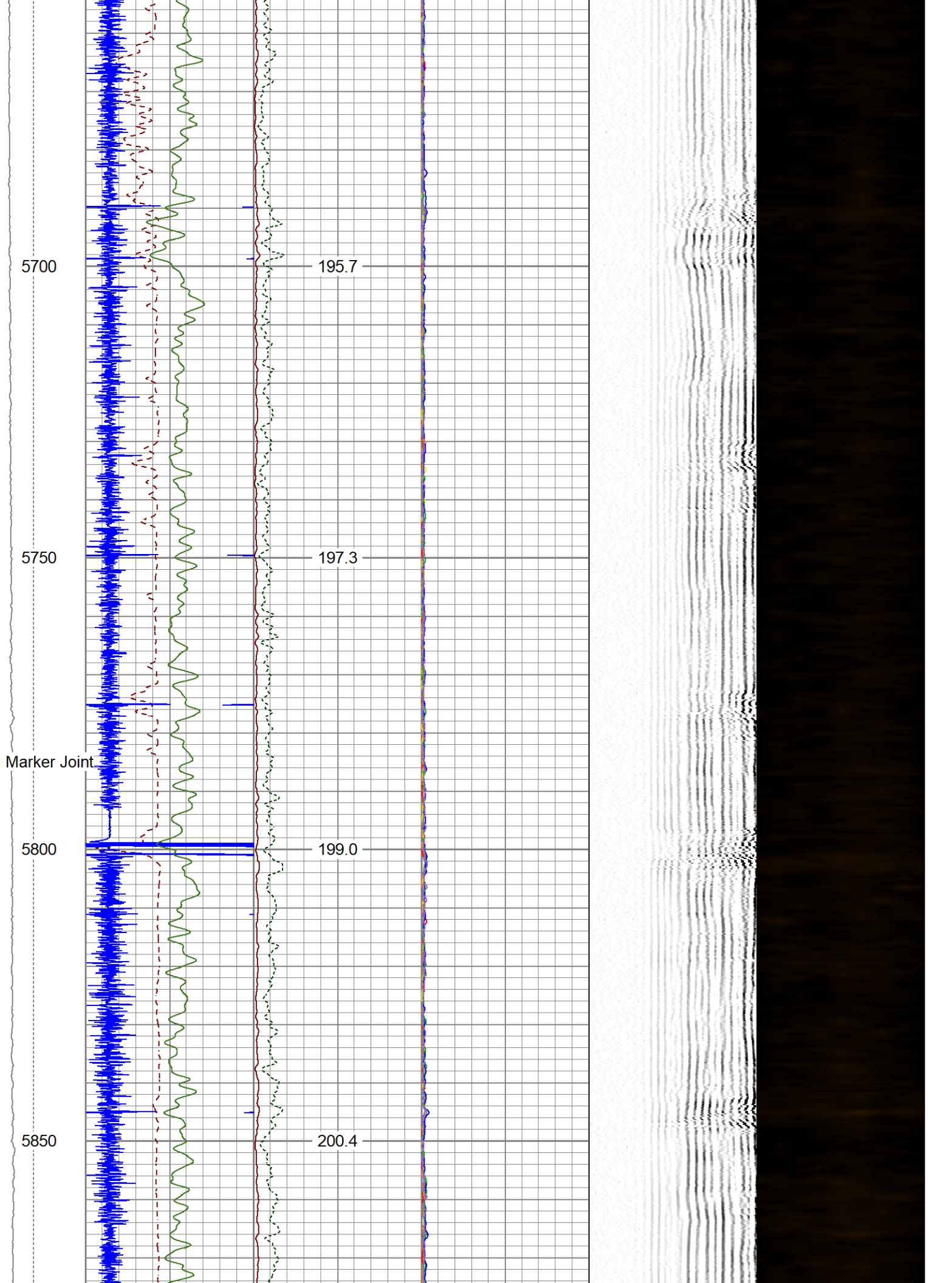
5600

192.2

5650

194.2





5900

201.9

5950

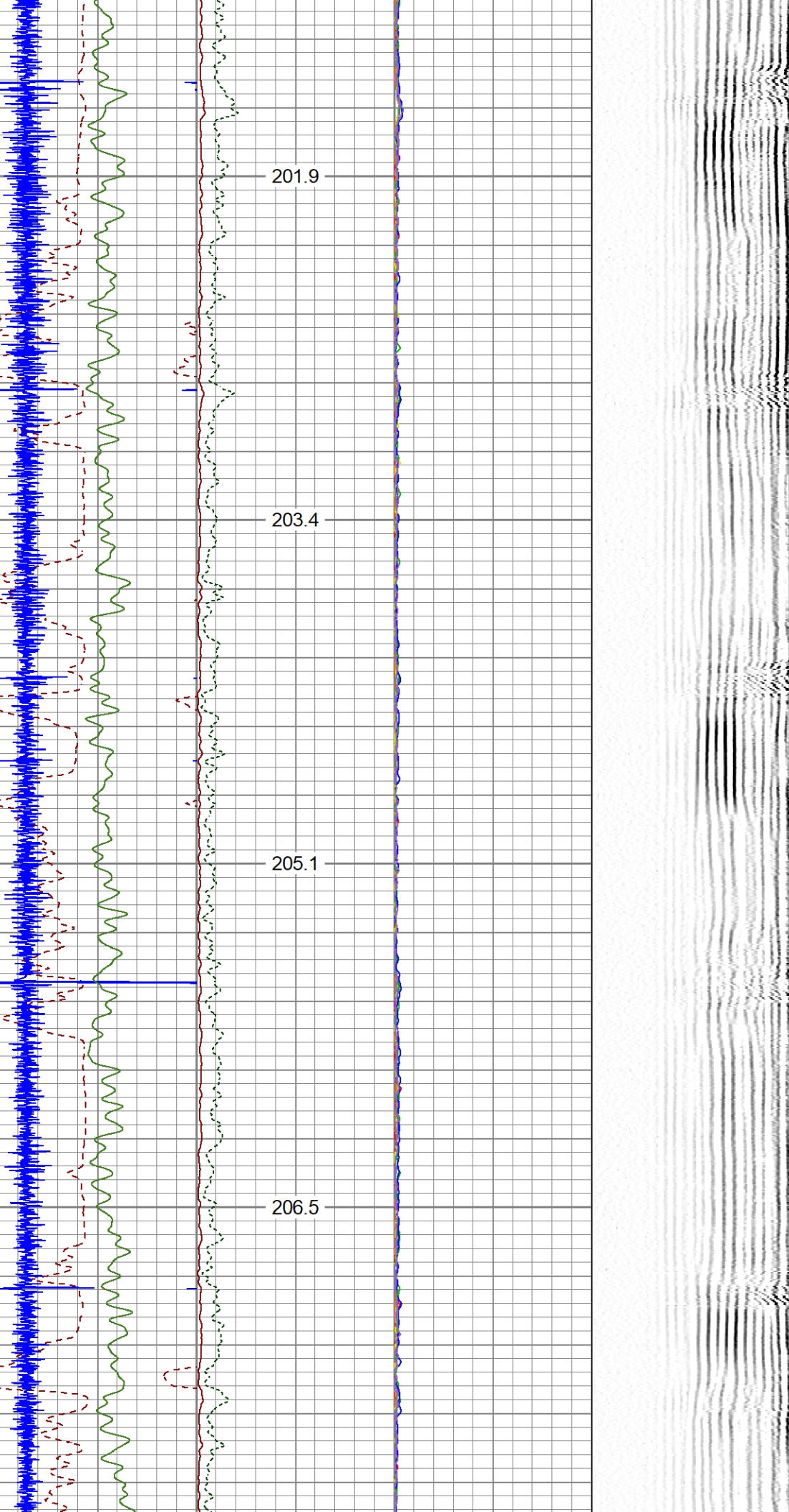
203.4

6000

205.1

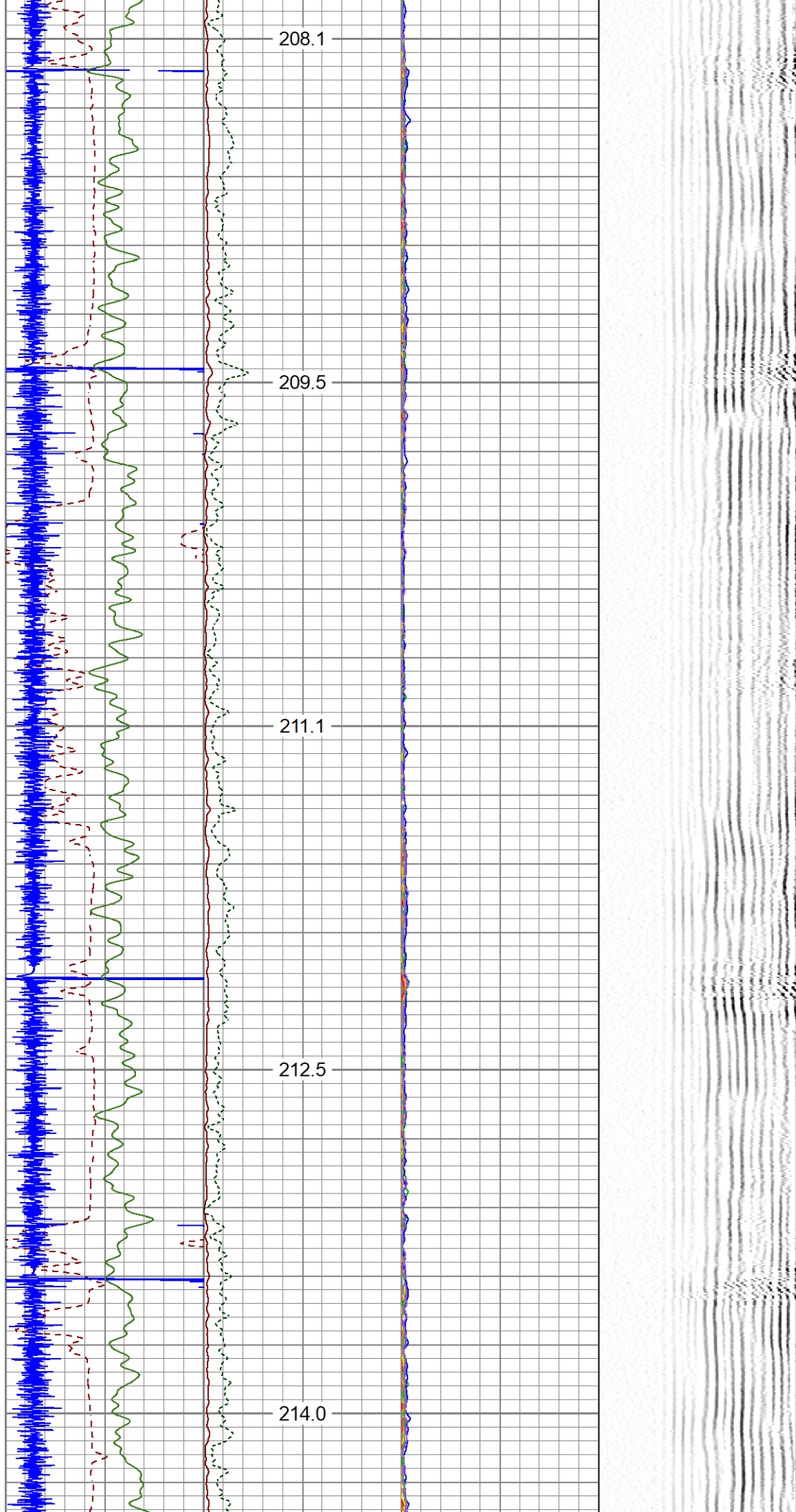
6050

206.5



6100
6150
6200
6250
6300

208.1
209.5
211.1
212.5
214.0



6350

215.5

6400

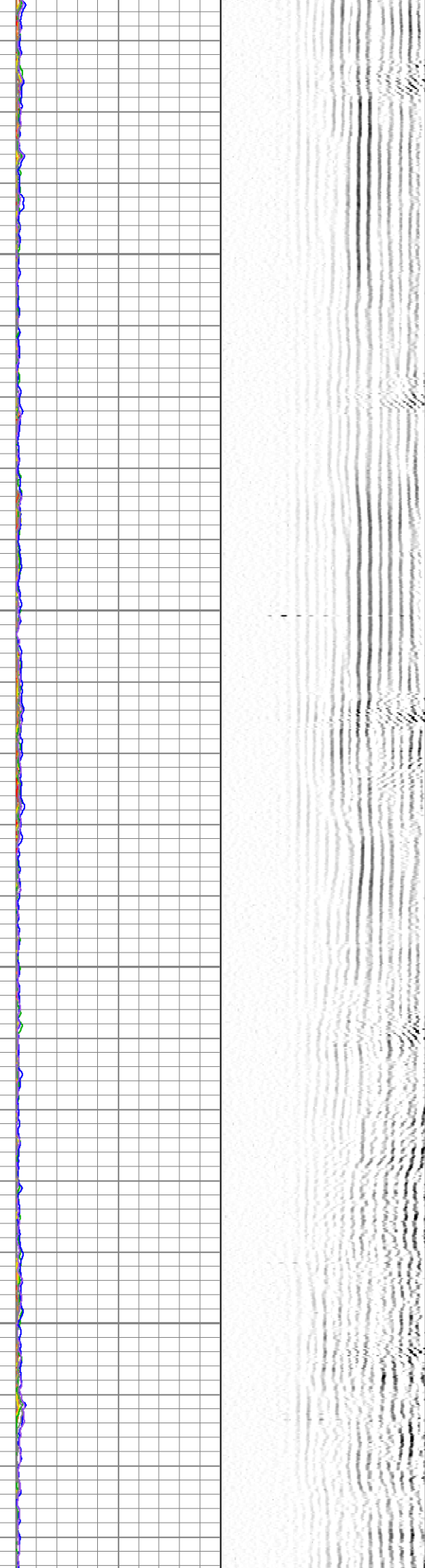
216.6

6450

217.8

6500

218.6



6550

219.6

6600

220.3

6650

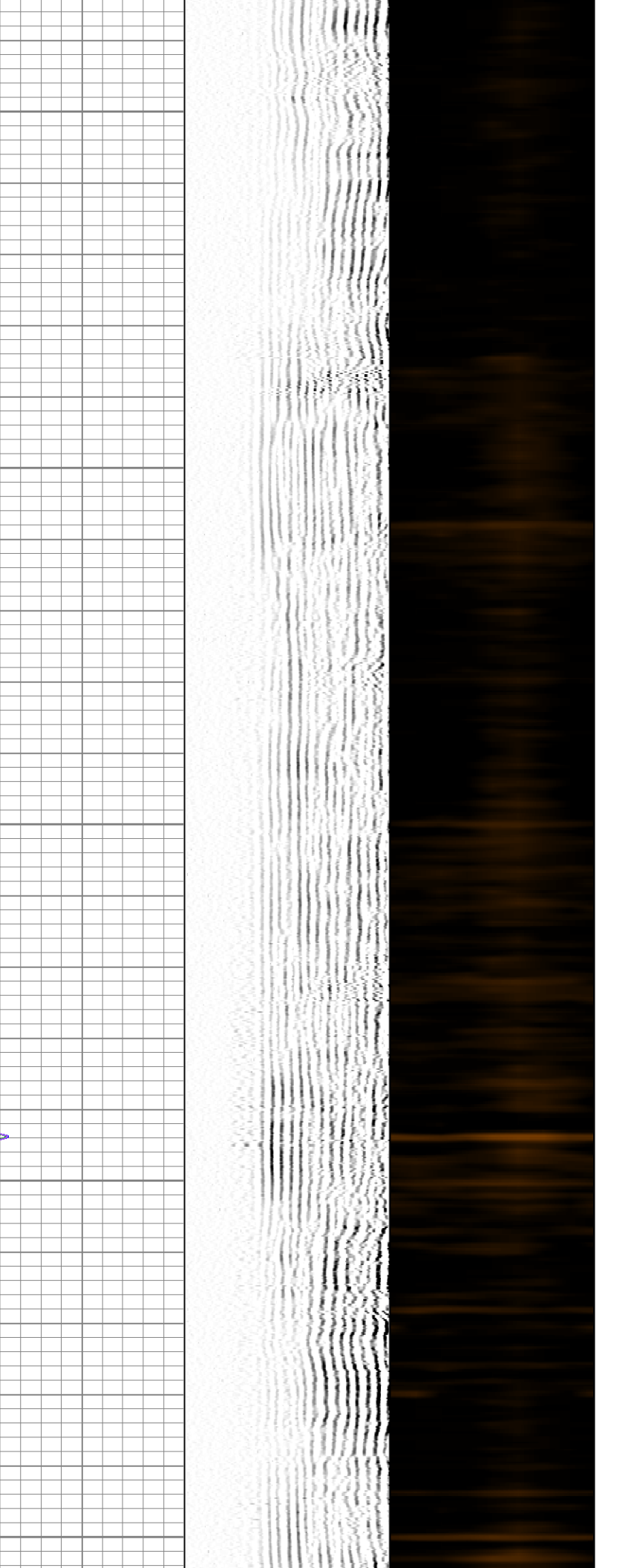
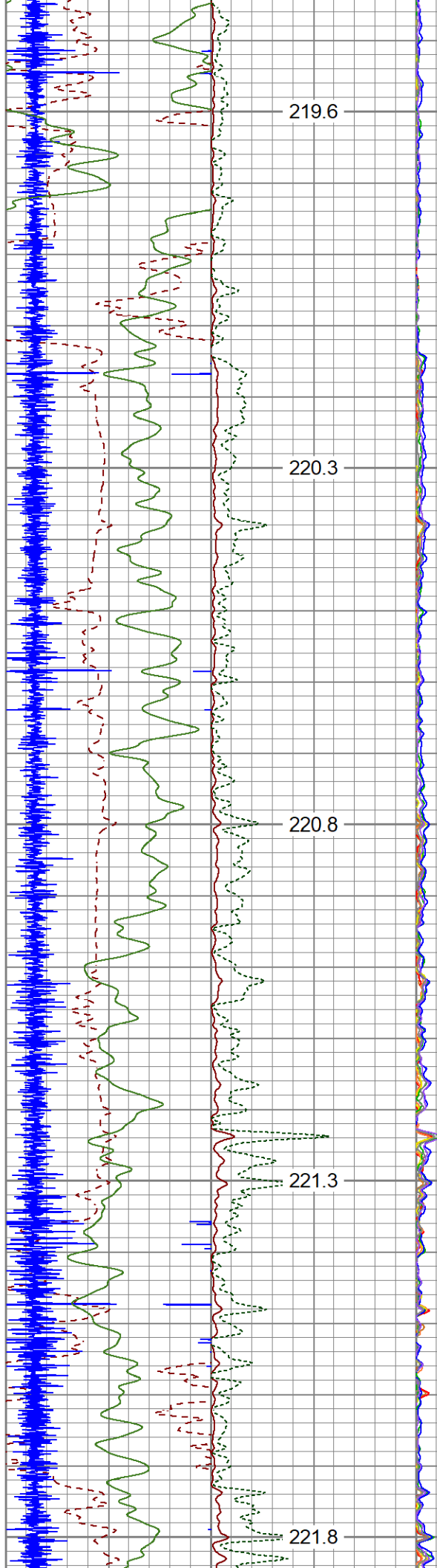
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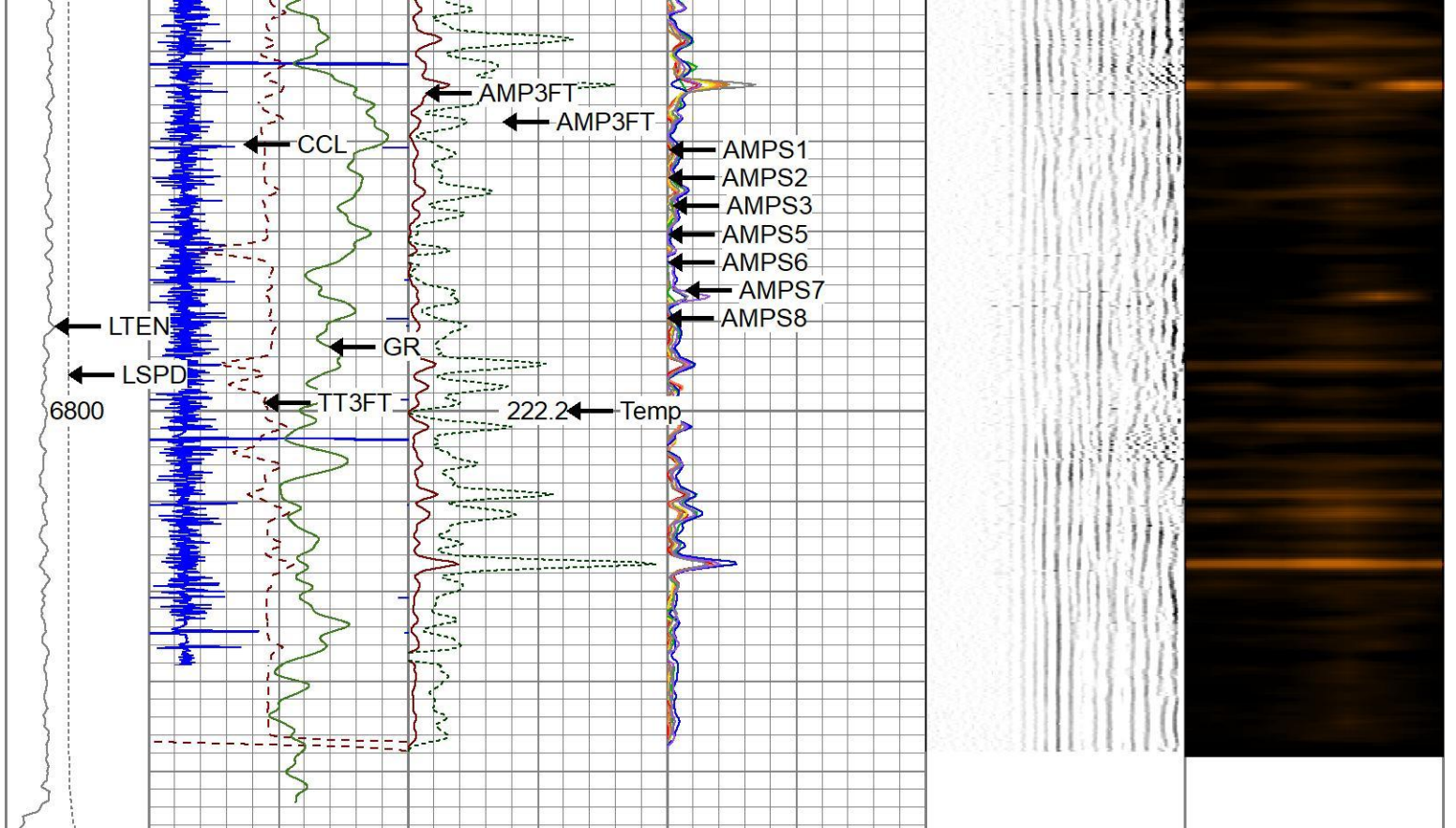
6700

221.3

6750

221.8





LTEN 0 (lb 1000)	3' Travel Time 400 (usec) 200	3' Amplitude 0 (mV) 100	0	AMPS1	150	5' Variable Density 10 (usec) 1200	1	Sector Map	8
LSPD (ft/min) 500 -500	Casing Collar Locator GAMMA RAY (GAPI) 200	3' Amplified Amplitude 0 (mV) 20	0	AMPS2	150				
		Temp (degF)	0	AMPS3	150	-409.6 (V) 409.4			
			0	AMPS4	150				
			0	AMPS5	150				
			0	AMPS6	150				
			0	AMPS7	150				
			0	AMPS8	150				



Repeat Pass

Database File: mallard_green_tea_34_27_5hn_ddr_rcbl.db
 Dataset Pathname: log1/pass2
 Presentation Format: rbl_all_8_2020
 Dataset Creation: Wed Feb 16 12:09:00 2022
 Charted by: Depth in Feet scaled 1:240

LTEN 0 (lb 1000)	3' Travel Time 400 (usec) 200	3' Amplitude 0 (mV) 100	0	AMPS1	150	5' Variable Density 10 (usec) 1200	1	Sector Map	8
LSPD (ft/min) 500 -500	Casing Collar Locator GAMMA RAY (GAPI) 200	3' Amplified Amplitude 0 (mV) 20	0	AMPS2	150				
		Temp (degF)	0	AMPS3	150	-409.6 (V) 409.4			
			0	AMPS4	150				
			0	AMPS5	150				
			0	AMPS6	150				
			0	AMPS7	150				
			0	AMPS8	150				

5600

191.5

5650

193.4

5700

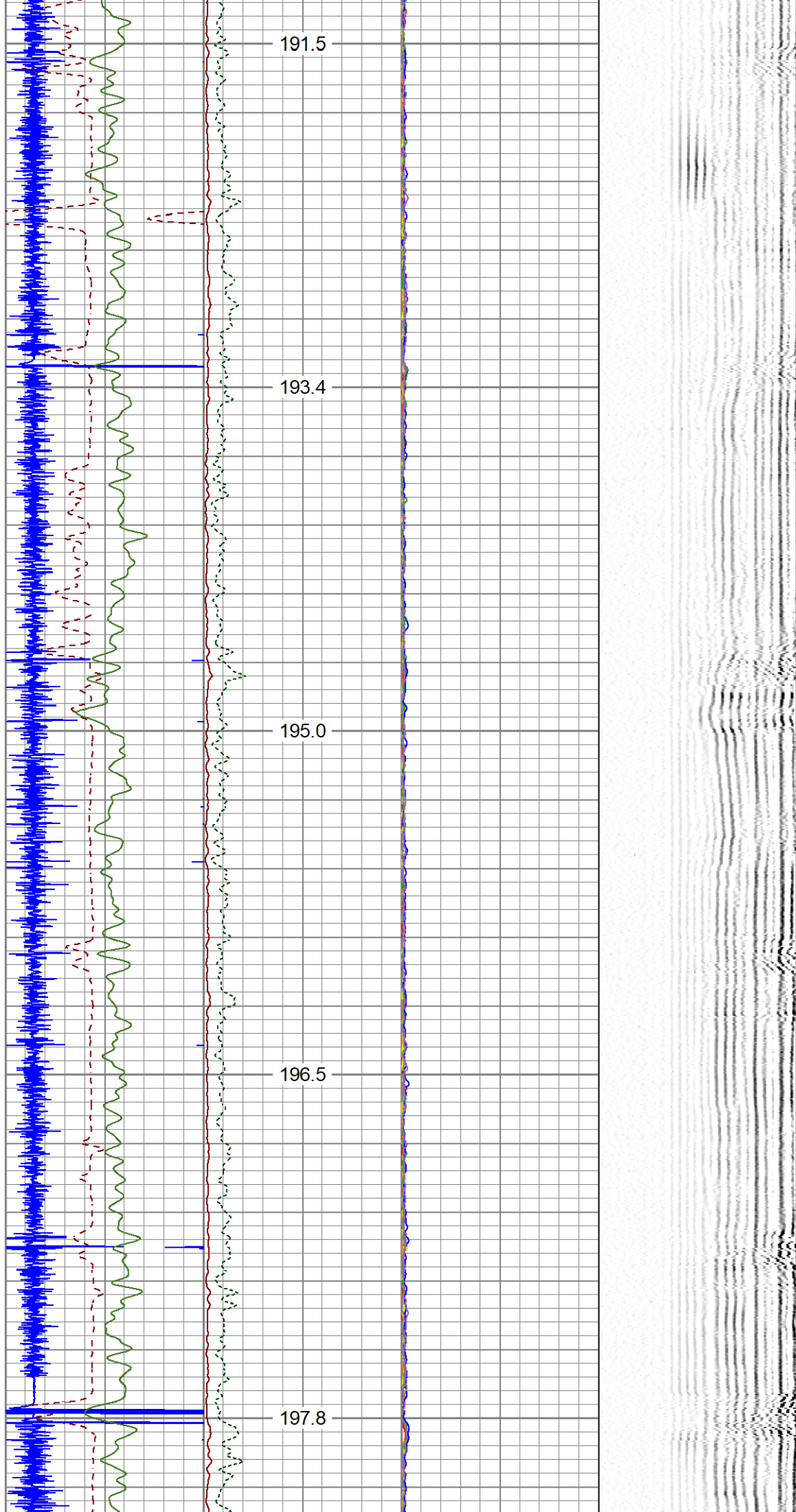
195.0

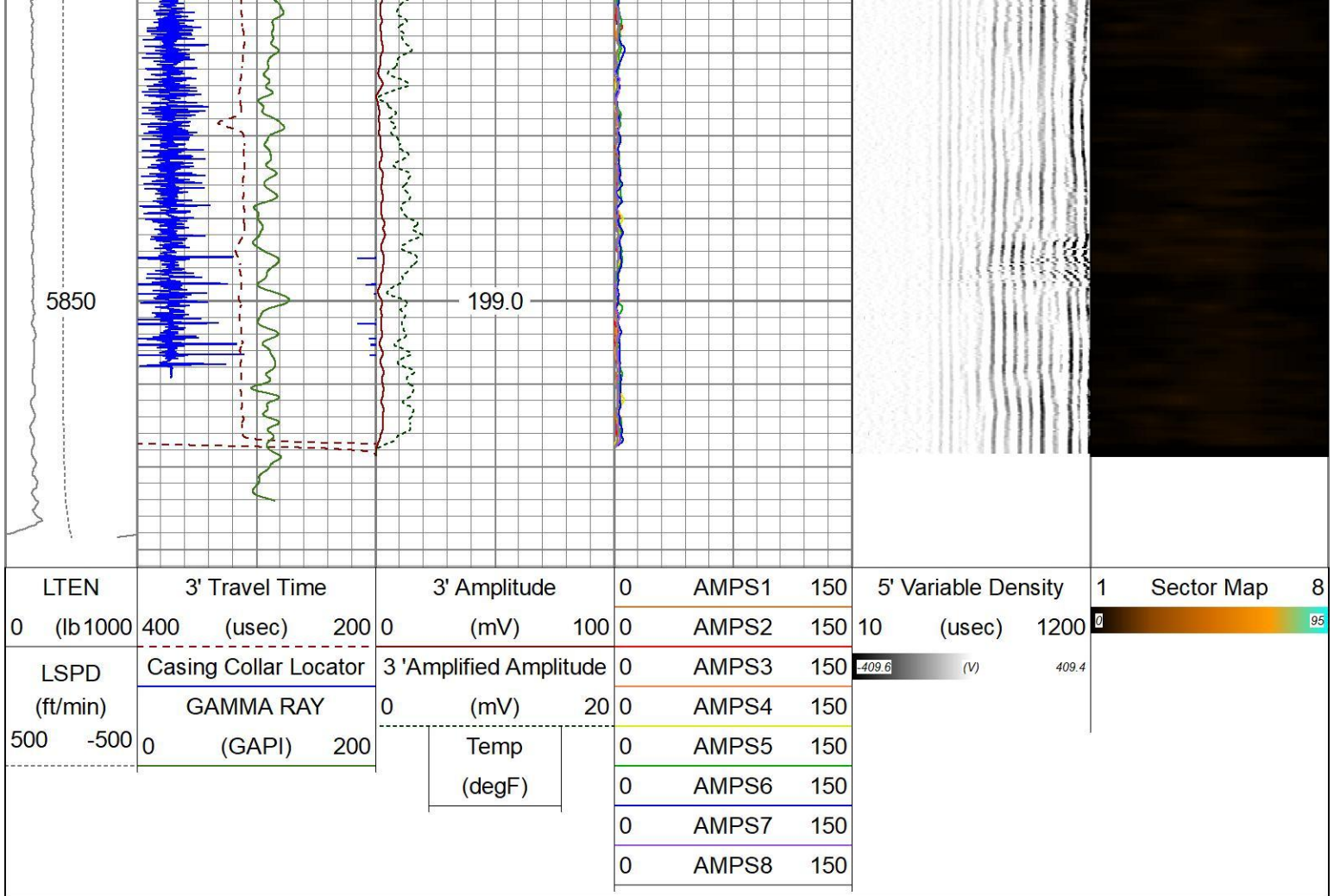
5750

196.5


5800

197.8





Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
Error_Ct	20.48		CCL-tecko (2.75CCL) 3.125 logging ccl	1.83	3.13	20.00
CCL	19.31		CENT-BC275-0000 Probe 2.75" Bowspring Centralizer	2.83	2.75	24.00
WVFS8	11.23		RBT-Probe (DD1_4.5) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
WVFS7	11.23					
WVFS6	11.23					
WVES5	11.23					

WVFS5	11.23					
WVFS4	11.23					
WVFS3	11.23					
WVFS2	11.23					
WVFS1	11.23					
WVFCAL	11.23					
WVF3FT	11.23					
WVF5FT	10.15					
			CENT-BC275-0000 Probe 2.75" Bowspring Centralizer	2.83	2.75	24.00
GCT_Temp	3.26					
GR	2.39		GC-GCT275-00SA (GCT275-00SA_base) Probe 2.75" Gamma Ray w/ Temp	4.06	2.75	46.00
Dataset:		mallard_green_teal_34_27_5hn_ddr_rcbl.db: field/well/log1/pass4				
Total length:		20.48 ft				
Total weight:		204.00 lb				
O.D.:		3.13 in				

Calibration Report	
Database File	mallard_green_teal_34_27_5hn_ddr_rcbl.db
Dataset Pathname	log1/pass4
Dataset Creation	Wed Feb 16 12:18:52 2022

Gamma Ray Calibration Report		
Serial Number:	GCT275-00SA_base	
Tool Model:	GCT275-00SA	
Performed:	(Not Performed)	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report		
Serial Number:	DD1_4.5	
Tool Model:	Probe	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	-8.983	ft

Master Calibration, performed Wed Feb 16 06:23:17 2022:

Raw (v)	Calibrated (mv)	Results
---------	-----------------	---------

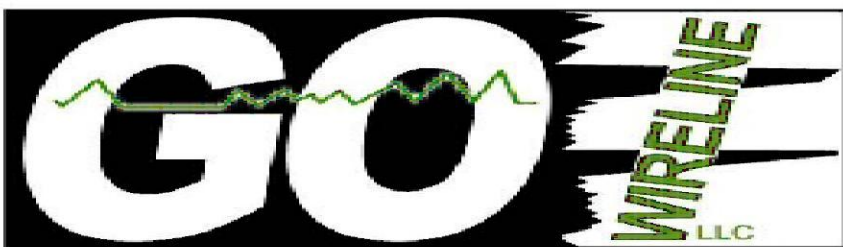
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	0.703	0.800	71.921	102.229	0.009
CAL	0.008	0.727				
5'	0.007	0.650	0.800	71.921	110.530	0.063
SUM						
S1	0.008	0.705	0.000	100.000	143.342	-1.097
S2	0.007	0.698	0.000	100.000	144.825	-1.085
S3	0.007	0.705	0.000	100.000	143.377	-1.069
S4	0.008	0.713	0.000	100.000	141.799	-1.103
S5	0.008	0.703	0.000	100.000	143.792	-1.095
S6	0.007	0.698	0.000	100.000	144.784	-1.069
S7	0.007	0.702	0.000	100.000	143.853	-1.045
S8	0.008	0.703	0.000	100.000	143.808	-1.102

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.008	0.727	1.000	0.000

Air Zero Calibration, performed Wed Feb 16 06:18:37 2022:

	Raw (v)		Calibrated (v)		Results
	Zero		Zero		Offset
3'	0.000		0.000		0.000
5'	0.000		0.000		0.000
SUM					
S1	0.000		0.000		0.000
S2	0.000		0.000		0.000
S3	0.000		0.000		0.000
S4	0.000		0.000		0.000
S5	0.000		0.000		0.000
S6	0.000		0.000		0.000
S7	0.000		0.000		0.000
S8	0.000		0.000		0.000



Company Mallard Exploration
Well Green Teal FED 34-27-5HN
Field Duck Pond
County Weld
State Colorado